

**BOARD OF COUNTY COMMISSIONERS  
AGENDA ITEM SUMMARY**

MEETING DATE: 8/18/04

DIVISION: COUNTY ADMINISTRATOR

BULK ITEM: YES

DEPARTMENT: AIRPORTS

AGENDA ITEM WORDING: Approval of Purchase Service Order with URS for an Environmental Assessment and permitting for development of Runway Safety Areas for Runway 9/27, at the Key West International Airport.

ITEM BACKGROUND: This project will be funded 95% by the Federal Aviation Administration, and 2.5% each by the Florida Department of Transportation, and Passenger Facility Charge Revenue. FAA required Independent Fee Estimate is attached, along with approval letter from FAA.

PREVIOUS RELEVANT BOCC ACTION: Approval to submit Passenger Facility Charge Application # 7, February 19, 2003.

CONTRACT/AGREEMENT CHANGES: New agreement

STAFF RECOMMENDATION: Approval

TOTAL COST: \$930,816.00

BUDGETED: Yes

COST TO AIRPORT: None

SOURCE OF FUNDS: FAA, FDOT, PFC Revenue

COST TO PFC: \$23,270.40

COST TO COUNTY: None

REVENUE PRODUCING: No

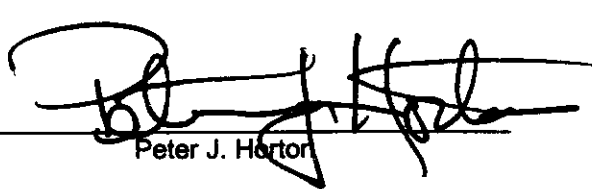
AMOUNT PER MONTH /YEAR:

APPROVED BY: County Attorney X

OMB/Purchasing N/A

Risk Management N/A

DIRECTOR OF AIRPORTS APPROVAL

  
Peter J. Horton

DOCUMENTATION: Included X

To Follow

Not Required

AGENDA ITEM # C29

DISPOSITION: \_\_\_\_\_

/bev  
APB

# MONROE COUNTY BOARD OF COUNTY COMMISSIONERS

## CONTRACT SUMMARY

Contract #

Contract with: URS

Effective Date: Execution

Expiration Date: 750 days

Contract Purpose/Description: Environmental Assessment & Permitting for development of Runway Safety Areas for Runway 9/27, at the Key West International Airport

Contract Manager: Bevette Moore  
(name)

# 5195  
(Ext.)

Airports - Stop # 5  
(Department/Courier Stop)

for BOCC meeting on: 8/18/04

Agenda Deadline: 8/3/04

## CONTRACT COSTS

Total Dollar Value of Contract: 930,816.00

Current Year Portion: ~ 15,000.00

Budgeted? Yes

Account Codes: 404-63095-530490-GAKA92

Grant: Yes, FAA & FDOT

County Match: PFC Revenue

## ADDITIONAL COSTS

Estimated Ongoing Costs: N/A  
(not included in dollar value above)

For: .  
(eg. maintenance, utilities, janitorial, salaries, etc.)

## CONTRACT REVIEW

	Date In	Changes Needed Yes No	Reviewer	Date Out
Airports Director	<u>7/22/04</u>	( ) <input checked="" type="checkbox"/>	<u>Peter Horton</u> Peter Horton	<u>7/22/04</u>
Risk Management	<u>1/1/</u>	( ) ( )	<u>N/A per OMB</u> for Risk Management	<u>1/1/</u>
O.M.B./Purchasing	<u>1/1/</u>	( ) ( )	<u>N/A per OMB</u> for OMB	<u>1/1/</u>
County Attorney	<u>1/1/</u>	( ) ( )	<u>Pedro Mercado</u> County Attorney	<u>7/21/04</u>

Comments: \_\_\_\_\_

\_\_\_\_\_

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\_\_\_\_\_

PURCHASE / SERVICE ORDER

FOR

MONROE COUNTY

To: URS

Purchase Service Order No. 03/04-5

Re: PSA Agreement, Dated 1-1-02

Resolution No. \_\_\_\_\_

Project Name: Key West International-Environmental Assessment/Permitting

Description of Services:  
(See attached scope of services)

Multiple of Direct Salaries \_\_\_\_\_

Lump Sum X

Reimbursable Expense \_\_\_\_\_

Days to Complete 750

Fee this Service Order \$930,816.00

Payment for Services shall be in their entirety as per PSO.

Prepared by:

Milford A. Reisert  
Milford A. Reisert

Date: 5-28-04

Recommended by:

Robert J. Horton

Date: 7-15-04

Accepted by:

Carlos Garcia  
Carlos Garcia

Date: 5/28/04

Approved by:

\_\_\_\_\_

Date: \_\_\_\_\_

APPROVED AS TO FORM  
BY Reddy  
DATE 7/21/04

**SCOPE OF SERVICES**  
**ENVIRONMENTAL ASSESSMENT AND PERMITTING**  
**FOR THE**  
**DEVELOPMENT OF RUNWAY SAFETY AREAS FOR RUNWAY 9/27**  
**AT**  
**KEY WEST INTERNATIONAL AIRPORT**  
**URS CORPORATION**

The Monroe County Board of County Commissioners (BOCC) has proposed runway safety area (RSA) improvements at the Key West International Airport (EYW) which require environmental analysis, coordination and documentation which conform with the provisions of the National Environmental Policy Act of 1969 (NEPA) and the Federal Aviation Administration (FAA) Airport Environmental Handbook, Order 5050.4A. This environmental analysis will be accomplished in the form of an Environmental Assessment (EA).

The proposed RSA improvements will also require the issuance of state and federal environmental permits for likely encroachments into jurisdictional areas regulated under the Clean Water Act and other State and Federal laws and regulations. Preparation of permit applications will be required as part of project development.

The BOCC has selected a consultant team lead by URS Corporation (URS) to assist the EYW in the preparation of the required documents. This Scope of Services sets forth the work efforts required to prepare the Draft and Final EA and the permit applications for the proposed EYW RSA development program.

The following are the direct and connected actions which are the focus of the EA, and which will be subject to the analysis of purpose and need, alternatives and environmental consequences:

- Provide a Runway Safety Area (RSA) for Runway 9 that is acceptable to FAA
- Provide a Runway Safety Area (RSA) for Runway 27 that is acceptable to FAA

**Part A: PROJECT DEFINITION AND IDENTIFICATION OF ALTERNATIVES**

**Task A1 Early Notification**

An informational package about the proposed RSA improvements at EYW and the preparation of the EA study will be prepared and distributed to applicable Federal, state, and local agencies as well as the Airport Citizens Advisory Council in order to solicit their opinions and obtain information relevant to the project. The mailing list for this effort will be incorporated into the project mailing list to be developed and maintained throughout the course of the study.

Product: Early Notification Letters to Agencies, Agency Mailing List.

Primary Responsibility: URS.

**Task A2      EA Introduction Chapter**

An introductory chapter for the EA will be prepared under this task. It will include a description of the proposed project, an overview of the EA process, and a summary of the forecasts of aviation activity at EYW within the time frame analyzed in the EA. The EA will use the most recent FAA approved forecasts of aviation activity at EYW (including fleet mix projections). This Scope of Services does not include the development of forecasts or any efforts required to obtain FAA approval of revised forecasts. The Introduction chapter of the EA will be submitted for preliminary review to the FAA and EYW concurrent with the Purpose and Need Working Paper described in Task A3.

URS will obtain digital orthophotography for the airport and study area. The format and scale will be selected to provide sufficient base maps for the EA graphics and study effort. Existing available aerial photography will be relied upon for analysis of off-site mitigation areas.

Product: Preliminary Draft EA Introduction Chapter; Aerial Photography

Primary Responsibility: URS

**Task A3      Definition of Purpose and Need**

The purpose and need for the proposed project will be evaluated and documented in this task. The analysis will identify what problems or shortfalls will be alleviated by the proposed improvements. This will provide documentation to the FAA and the public as to the need for the project. The intent of the analysis will be to clearly describe the need for the proposed project and to support the description with quantitative data. It is anticipated in this Scope of Services that the critical aircraft for this analysis and evaluation will be a regional jet falling into Approach Category C and Design Group II.

The project purpose will be limited to those actions identified by the FAA as requiring environmental analysis and processing, specifically the proposed upgrading of the Runway 9/27 RSAs to accommodate the critical aircraft cited above. The potential for increased safety will be the focus concept in the Purpose and Need discussion.

The results of the review and analyses identified above will be documented in a Preliminary Draft Working Paper of the Introduction and Purpose and Need sections of the EA. Twenty (28) copies of the Introduction and Purpose and Need Working Paper document will be provided (20 EYW, 5 FAA, 3 URS). The EYW and FAA will review and approve the content of the Introduction and Purpose and Need Working Paper prior to the evaluation of alternatives in Task A4. This Scope of Services anticipates one (1) round of review and comment by the EYW and FAA.

Product: Preliminary Draft Working Paper - Introduction and Purpose and Need

Primary Responsibility: URS.

#### **Task A4      *Identification of Alternatives***

This task will identify and assess the viability of alternatives for providing the improvements in aircraft operating safety that are required by the FAA through the upgrading of the Runway 9/27 RSAs, and will only be initiated after EYW and FAA approval of the project Purpose and Need developed in Task A3. The approved Purpose and Need will form the basis of the alternatives analysis outlined in this task.

A test of reasonableness and practicality will be applied to each alternative to identify alternatives that warrant further study. Previous data and decisions that are still valid will be used to eliminate alternatives, as applicable. The evaluation of all alternatives will consider existing published information on each initial alternative identified. The evaluation will focus on the relative advantages and disadvantages of each alternative, and will incorporate the analysis of RSA alternatives mandated by FAA Order 5200.9. This analysis will utilize the engineering analyses performed in Task C2.1

The feasibility and practicality of all reasonable on- and off-site alternatives will be examined through a multiple-level screening process. The first level will evaluate the alternatives ability to fulfill the Purpose and Need criteria established and approved in Task A3. Only those alternatives that meet all of the level one criteria will be evaluated in the second level, which will consider the operational factors, constructability, costs and preliminary environmental impacts associated with the alternatives. For project scoping purposes, it is anticipated that the on-site alternatives to be retained for detailed evaluation in subsequent portions of the EA will include the No-Action Alternative and up to three (3) combinations of RSA configurations for Runway 9/27.

Since almost any of the "build alternatives" would result in impacts to wetlands and/or floodplains, the alternatives analysis will include an evaluation of practicable avoidance/minimization alternatives as required under §404(b)(1) of the Clean Water Act. These evaluations will be used to identify the *least environmentally-damaging practicable alternative* for use in the development of the permit applications to be prepared under Task C4.

Included in the review of alternatives will be the identification of dependent airport development and nondevelopment actions that would be associated with the alternatives. Each of the alternatives will be clearly defined in text and illustrations. An early qualitative review of each alternative and its impacts will be used to identify the range of alternatives to receive detailed assessment.

The results of the review and analyses identified above will be documented in a Preliminary Draft Working Paper of the Alternatives Chapter of the EA. The alternatives will be clearly and concisely compared in text, tabular and graphic form. A comprehensive discussion will be provided that will describe the reasoning for retaining or eliminating each alternative for further evaluation. Twenty-eight (28) copies of the Alternatives Working Paper document will be provided (20 EYW, 5 FAA, 3 URS). The EYW and FAA will review and approve the alternatives analysis prior to the detailed analysis of environmental impacts in Part B of this Scope of Services. This Scope of Services anticipates one (1) round of review and comment by the EYW and FAA.

**Product:** *Preliminary Draft Working Paper - Alternatives*

**Primary Responsibility:** *URS*

#### **Task A4      Identification of Alternatives**

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A test of reasonableness and practicality will be applied to each alternative to identify alternatives that warrant further study. Previous data and decisions that are still valid will be used to eliminate alternatives, as applicable. The evaluation of all alternatives will consider existing published information on each initial alternative identified. The evaluation will focus on the relative advantages and disadvantages of each alternative, and will incorporate the analysis of RSA alternatives mandated by FAA Order 5200.9. This analysis will utilize the engineering analyses performed in Task C2.1

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The results of the review and analyses identified above will be documented in a Preliminary Draft Working Paper of the Alternatives Chapter of the EA. The alternatives will be clearly and concisely compared in text, tabular and graphic form. A comprehensive discussion will be provided that will describe the reasoning for retaining or eliminating each alternative for further evaluation. Twenty-eight (28) copies of the Alternatives Working Paper document will be provided (20 EYW, 5 FAA, 3 URS). The EYW and FAA will review and approve the alternatives analysis prior to the detailed analysis of environmental impacts in Part B of this Scope of Services. This Scope of Services anticipates one (1) round of review and comment by the EYW and FAA.

Product: Preliminary Draft Working Paper - Alternatives

Primary Responsibility: URS

and supplemental data obtained in the field as part of the EA process. This GIS mapping/database system will be used to describe existing conditions in the Study Area and for the subsequent evaluation of impacts in Task B2. Finished graphics of digital maps and physical maps at the largest possible scale for report purposes will be used as base maps throughout the entire study and will show existing political jurisdictions, land uses, environmental resources (wetlands, biotic communities and floodplains) major and minor streets and roadways, and major physical constraints, along with selected place names, road names and names of geographical features. A windshield survey will be conducted to finalize the identification of land uses from available aerial photography.

Other information will also be gathered for use in the Affected Environment section of the EA. Such additional data will include the location and description of public parks, wildlife and waterfowl refuges, farmlands, recreation areas, historic sites, coastal zone management, and coastal barriers.

*Product: Updated and most appropriately scaled digital and physical base maps of the Study Area to be used throughout the EA. Updated information for use in the Description of the Affected Environment.*

*Primary Responsibility: URS.*

#### **Task B1.2      Description of the Affected Environment**

As required by FAA Orders 5050.4A and 1050.1D, NEPA and CEQ, URS will prepare a concise description of the EA Study Area. The affected environment will be described by the following:

Location map, vicinity map, Airport Layout Plan, existing land use and zoning maps;

Graphics and descriptions of existing aircraft noise impacts, land uses in the EA Study Area, including affected residential areas, public parks, wildlife and waterfowl refuges, designated areas of critical habitat, uplands, wetlands, floodplains, farmlands, recreation areas, and historic and archaeological sites;

Future planned activities in the Study Area.

*Product: Preparation of graphics and a brief summary describing the affected environment for use in the EA.*

*Primary Responsibility: URS.*

#### **Task B2      Environmental Consequences**

This task involves the technical analyses of the direct and indirect environmental effects of the proposed improvements and other reasonable alternatives for the specific impact categories listed in FAA Orders 5050.4A and 1050.1D. For each impact category, one of the following courses of action will be followed in determining the scope of material to be prepared by URS for the EA:

If analysis indicates no impacts or the impacts are not significant, a brief but complete statement to this effect, including the reasons and reference to the appropriate section(s) of FAA Orders 1050.1D and 5050.4A, will be prepared by URS and used in preparing the EA.



and supplemental data obtained in the field as part of the EA process. This GIS mapping/database system will be used to describe existing conditions in the Study Area and for the subsequent evaluation of impacts in Task B2. Finished graphics of digital maps and physical maps at the largest possible scale for report purposes will be used as base maps throughout the entire study and will show existing political jurisdictions, land uses, environmental resources (wetlands, biotic communities and floodplains) major and minor streets and roadways, and major physical constraints, along with selected place names, road names and names of geographical features. A windshield survey will be conducted to finalize the identification of land uses from available aerial photography.

Other information will also be gathered for use in the Affected Environment section of the EA. Such additional data will include the location and description of public parks, wildlife and waterfowl refuges, farmlands, recreation areas, historic sites, coastal zone management, and coastal barriers.

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*Primary Responsibility: URS.*

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Future planned activities in the Study Area.

*Product: Preparation of graphics and a brief summary describing the affected environment for use in the EA.*

*Primary Responsibility: URS.*

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If analysis indicates no impacts or the impacts are not significant, a brief but complete statement to this effect, including the reasons and reference to the appropriate section(s) of FAA Orders 1050.1D and 5050.4A, will be prepared by URS and used in preparing the EA.

Primary Responsibility: URS.

#### **Task B2.4      Endangered and Threatened Species**

The effect of the alternatives under study upon Federal and state-listed plants and animals and their habitats will be evaluated in this task. It is anticipated that the information regarding Endangered and Threatened Species on the airport property will be obtained from the EYW, from State and Federal resource agencies, and from the assessments prepared as part of Task C1.5. Particular attention will be paid to the potential impacts of the development alternatives upon protected species that are permanent or migratory (seasonal) inhabitants of the area.

Product: Description of endangered species impacts of the alternatives under study.

Primary Responsibility: URS.

#### **Task B2.5      Water Quality**

The effects of the alternatives under study upon stormwater and groundwater quality and quantity during construction and operation of the alternatives will be examined in this task. The analysis will address an estimation of runoff volumes, methods to control peak flow, and methods to mitigate water quality impacts. Measures to ensure compliance with FAA AC 150/5370-10A "Standards for Specifying Construction at Airports", as well as state or local water quality regulations and the current stormwater management and permitting requirements will be discussed. The information to be reported in this task will come in part from the activities undertaken pursuant to Task C3 of this Scope of Services. In addition, an analysis of potential impacts to water supply and wastewater treatment facilities will be included in this section.

Potential water quality construction impacts associated with the alternatives under study will be described and any mitigation measures considered necessary will be identified. These may include such measures as erosion control practices, stormwater runoff detention methods and Best Management Practices (BMP's). The provisions and applicability for construction mitigation contained in FAA Advisory Circular 150/5370-10A, *Standards for Specifying Construction at Airports*, will also be discussed. A qualitative discussion of the cumulative impacts of EYW development and other development proposals in the vicinity will be prepared.

Product: Description of water quality impacts of the alternatives under study.

Primary Responsibility: URS.

#### **Task B2.6      Floodplains**

The effect of the alternatives under study upon designated 100-year floodplains and floodways will be determined in compliance with Executive Order 11988. Such areas will be identified through Federal Emergency Management Administration (FEMA) Flood Insurance Rate Maps. The evaluation will consider the direct and indirect potential of the alternatives under study to impact floodplains. In addition, the requirements of applicable state and local regulations will be identified and complied with. Where 100-year floodplain/floodway impacts are determined to occur, conceptual mitigation measures will be provided by URS

Primary Responsibility: URS.

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Product: Description of endangered species impacts of the alternatives under study.

Primary Responsibility: URS.

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Primary Responsibility: URS.

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The APE for archaeological resources is proposed to consist of lands which have the potential for physical disturbance from the alternatives under study. This would consist of lands currently owned by the EYW that are involved in the proposed improvements. Early consultation conducted as part of Task 1.1 between the EYW and the SHPO will determine if there is a potential for there to be archaeological sites listed in or eligible for the National Register within the APE for archaeological resources. Since it is anticipated that all land disturbance associated with the alternatives under study would occur entirely on previously disturbed properties, this Scope of Services does not include archaeological field work to identify previously unrecorded archaeological sites.

Product: *Description of historic and archaeological impacts of the alternatives under study.*

Primary Responsibility: URS.

#### **Task B2.9 DOT Section 303(c) Resources (formerly Section 4(f) resources)**

An analysis of potential impacts to DOT Section 303(c) properties (parks or recreational areas) as well as DOI Section 6(f) (Land & Water Conservation Fund Lands) will be conducted as a part of the EA. Such properties located within the Study Area will be identified, described and potential impacts to them evaluated as outlined in FAA Orders 5050.4A and 1050.1D. If impacts are expected to occur, appropriate avoidance alternatives and potential mitigation measures will be identified. Consideration will be given to all potential uses of Section 303(c) and 6(f) lands including direct use (such as through acquisition or demolition) and constructive use (such as increased noise levels or changes in access).

Product: *Description of DOT Section 303(c) and 6(f) impacts of the alternatives under study.*

Primary Responsibility: URS.

#### **Task B2.10 Noise Impacts**

The proposed project under consideration consists of the development of improved RSA's at EYW. The development of improved RSA's would not result in any change in aircraft operational levels, flight tracks, runway use percentages, day-night split or fleet mix at EYW. The resultant analysis of noise exposure contours for any of the alternatives, if accomplished, would yield the same results.

Since a comparative analysis would not yield meaningful data for the evaluation of the alternatives under study, the development of noise contours for the No-Action versus "build alternatives" will not be conducted for this EA. The EA document will include a brief but complete statement to this effect, including the reasoning leading to a conclusion of no impact and reference to the appropriate section(s) of FAA Orders 1050.1D and 5050.4A.

Product: *Description of reasoning for not conducting a noise impact analysis of the alternatives.*

Primary Responsibility: URS.

The APE for archaeological resources is proposed to consist of lands which have the potential for physical disturbance from the alternatives under study. This would consist of lands currently owned by the EYW that are involved in the proposed improvements. Early consultation conducted as part of Task 1.1 between the EYW and the SHPO will determine if there is a potential for there to be archaeological sites listed in or eligible for the National Register within the APE for archaeological resources. Since it is anticipated that all land disturbance associated with the alternatives under study would occur entirely on previously disturbed properties, this Scope of Services does not include archaeological field work to identify previously unrecorded archaeological sites.

*Product:* Description of historic and archaeological impacts of the alternatives under study.

*Primary Responsibility:* URS.

#### **Task B2.9 DOT Section 303(c) Resources (formerly Section 4(f) resources)**

An analysis of potential impacts to DOT Section 303(c) properties (parks or recreational areas) as well as DOI Section 6(f) (Land & Water Conservation Fund Lands) will be conducted as a part of the EA. Such properties located within the Study Area will be identified, described and potential impacts to them evaluated as outlined in FAA Orders 5050.4A and 1050.1D. If impacts are expected to occur, appropriate avoidance alternatives and potential mitigation measures will be identified. Consideration will be given to all potential uses of Section 303(c) and 6(f) lands including direct use (such as through acquisition or demolition) and constructive use (such as increased noise levels or changes in access).

*Product:* Description of DOT Section 303(c) and 6(f) impacts of the alternatives under study.

*Primary Responsibility:* URS.

#### **Task B2.10 Noise Impacts**

The proposed project under consideration consists of the development of improved RSA's at EYW. The development of improved RSA's would not result in any change in aircraft operational levels, flight tracks, runway use percentages, day-night split or fleet mix at EYW. The resultant analysis of noise exposure contours for any of the alternatives, if accomplished, would yield the same results.

Since a comparative analysis would not yield meaningful data for the evaluation of the alternatives under study, the development of noise contours for the No-Action versus "build alternatives" will not be conducted for this EA. The EA document will include a brief but complete statement to this effect, including the reasoning leading to a conclusion of no impact and reference to the appropriate section(s) of FAA Orders 1050.1D and 5050.4A.

*Product:* Description of reasoning for not conducting a noise impact analysis of the alternatives.

*Primary Responsibility:* URS.

## **Environmental Justice**

Impacts of the alternatives will be assessed with regard to compliance with Federal Environmental Justice guidelines (Executive Order 12898) to determine if there would be a disproportionate adverse impact to minority and low-income populations as a result of implementation of any of the alternatives under study (including the No-Action Alternative), and to quantify these impacts, should they occur.

The results of the noise and land use analyses conducted in Tasks 2.2.9 and 2.2.10 as well as the analyses conducted for other applicable impact categories will be used as the basis for this determination. Public participation from the Public Information Meeting and the Public Hearing will be used as an important resource in identifying and defining potential minority and low-income communities and their particular concerns regarding the alternatives under study.

*Product: Description of environmental justice issues associated with the alternatives under study*

*Primary Responsibility: URS.*

### **Task B2.13 Induced Socioeconomic Impacts**

Since it is not anticipated that the alternatives under study would result in noise, land use or social impacts, it is also not anticipated in this Scope of Services that the proposed project and reasonable alternatives would result in impacts to the social and economic characteristics of the Key West community, result in shifts in population movement and growth, increases in public service demands, or changes in surface transportation patterns in the EYW area. The EA document will include a brief but complete statement to this effect, including the reasoning leading to a conclusion of no impact and reference to the appropriate section(s) of FAA Orders 1050.1D and 5050.4A.

*Product: Description of induced socioeconomic impacts of the alternatives under study.*

*Primary Responsibility: URS.*

### **Task B2.14 Air Quality**

This section will assess the need for, and fulfill the requirements of, an air quality analysis in accordance with FAA Order 5050.4A, Page 33 Paragraph 5B. Since the RSA improvements under study would not change the number of airport operations, it is likely that only a qualitative discussion of air quality conditions related to airport operations will be required. However, if necessary, an emissions inventory of all airport sources of carbon monoxide (CO), hydrocarbons (HC), oxides of nitrogen (NO<sub>x</sub>), and particulate matter will be conducted, both with and without the proposed project. The FAA Emissions Dispersion Modeling System (EDMS) would be used for this purpose.

An analysis and emissions inventory of the project's construction-related emissions will be provided for the pollutants referenced above. For the purposes of this Scope of Services it is anticipated that construction associated with the proposed project would be initiated in the year 2005 and be completed during 2006. Therefore, the construction emissions analysis will be for the 2005 through 2006 time frame.

## **Environmental Justice**

Impacts of the alternatives will be assessed with regard to compliance with Federal Environmental Justice guidelines (Executive Order 12898) to determine if there would be a disproportionate adverse impact to minority and low-income populations as a result of implementation of any of the alternatives under study (including the No-Action Alternative), and to quantify these impacts, should they occur.

The results of the noise and land use analyses conducted in Tasks 2.2.9 and 2.2.10 as well as the analyses conducted for other applicable impact categories will be used as the basis for this determination. Public participation from the Public Information Meeting and the Public Hearing will be used as an important resource in identifying and defining potential minority and low-income communities and their particular concerns regarding the alternatives under study.

*Product: Description of environmental justice issues associated with the alternatives under study*

*Primary Responsibility: URS.*

### **Task B2.13 Induced Socioeconomic Impacts**

Since it is not anticipated that the alternatives under study would result in noise, land use or social impacts, it is also not anticipated in this Scope of Services that the proposed project and reasonable alternatives would result in impacts to the social and economic characteristics of the Key West community, result in shifts in population movement and growth, increases in public service demands, or changes in surface transportation patterns in the EYW area. The EA document will include a brief but complete statement to this effect, including the reasoning leading to a conclusion of no impact and reference to the appropriate section(s) of FAA Orders 1050.1D and 5050.4A.

*Product: Description of induced socioeconomic impacts of the alternatives under study.*

*Primary Responsibility: URS.*

### **Task B2.14 Air Quality**

This section will assess the need for, and fulfill the requirements of, an air quality analysis in accordance with FAA Order 5050.4A, Page 33 Paragraph 5B. Since the RSA improvements under study would not change the number of airport operations, it is likely that only a qualitative discussion of air quality conditions related to airport operations will be required. However, if necessary, an emissions inventory of all airport sources of carbon monoxide (CO), hydrocarbons (HC), oxides of nitrogen (NO<sub>x</sub>), and particulate matter will be conducted, both with and without the proposed project. The FAA Emissions Dispersion Modeling System (EDMS) would be used for this purpose.

An analysis and emissions inventory of the project's construction-related emissions will be provided for the pollutants referenced above. For the purposes of this Scope of Services it is anticipated that construction associated with the proposed project would be initiated in the year 2005 and be completed during 2006. Therefore, the construction emissions analysis will be for the 2005 through 2006 time frame.

#### **Task B2.18      Energy Supply and Natural Resources**

The impacts of the alternatives under study will be compared with regard to energy supplies and natural resources. This includes the effects on vehicular energy utilization, electrical requirements and the use of any resources which may be in limited supply. The analysis will also include an assessment of the use of such items as oil, gas, and mineral or other natural resource reserves.

Product: *Description of energy supply and natural resource impacts of the alternatives under study.*

Primary Responsibility: URS.

#### **Task B2.19      Light Emissions**

It is not anticipated that the alternatives under study would impact areas that have been identified or designated as light sensitive. To confirm this determination, URS will investigate the potential for the intrusion of additional light emissions in areas sensitive to human and wildlife.

Product: *Description of light emission impacts of the alternatives under study.*

Primary Responsibility: URS.

#### **Task B2.20      Solid Waste Impacts**

The potential impacts of the proposed improvements upon solid waste will be determined as required in FAA Orders 5050.4A and 1050.1D. Consultation with local officials will be made to determine the capacity of existing and proposed solid waste disposal facilities and their ability to accommodate the estimated solid wastes that would be generated by construction of the RSA improvements. URS will analyze the airport's conformity with current FAA guidelines contained in FAA AC 150/ 5200-33, *Hazardous Wildlife Attractants On or Near Airports*, by locating a runway within 10,000 feet of an active sanitary landfill. URS will coordinate with the EYW, the FAA and the Monroe County Department of Solid Waste to document the potential for impact and to resolve any conflicts that may arise from the location of the proposed upgraded RSA's. Potential mitigation measures will be identified in coordination with the EYW, the Monroe County Department of Solid Waste and the FAA.

Product: *Description of solid waste impacts of the alternatives under study.*

Primary Responsibility: URS.



#### **Task B2.18     Energy Supply and Natural Resources**

The impacts of the alternatives under study will be compared with regard to energy supplies and natural resources. This includes the effects on vehicular energy utilization, electrical requirements and the use of any resources which may be in limited supply. The analysis will also include an assessment of the use of such items as oil, gas, and mineral or other natural resource reserves.

Product: *Description of energy supply and natural resource impacts of the alternatives under study.*

Primary Responsibility: *URS.*

#### **Task B2.19     Light Emissions**

It is not anticipated that the alternatives under study would impact areas that have been identified or designated as light sensitive. To confirm this determination, URS will investigate the potential for the intrusion of additional light emissions in areas sensitive to human and wildlife.

Product: *Description of light emission impacts of the alternatives under study.*

Primary Responsibility: *URS.*

#### **Task B2.20     Solid Waste Impacts**

The potential impacts of the proposed improvements upon solid waste will be determined as required in FAA Orders 5050.4A and 1050.1D. Consultation with local officials will be made to determine the capacity of existing and proposed solid waste disposal facilities and their ability to accommodate the estimated solid wastes that would be generated by construction of the RSA improvements. URS will analyze the airport's conformity with current FAA guidelines contained in FAA AC 150/ 5200-33, *Hazardous Wildlife Attractants On or Near Airports*, by locating a runway within 10,000 feet of an active sanitary landfill. URS will coordinate with the EYW, the FAA and the Monroe County Department of Solid Waste to document the potential for impact and to resolve any conflicts that may arise from the location of the proposed upgraded RSA's. Potential mitigation measures will be identified in coordination with the EYW, the Monroe County Department of Solid Waste and the FAA.

Product: *Description of solid waste impacts of the alternatives under study.*

Primary Responsibility: *URS.*

Primary Responsibility: URS.

#### **Task B3.2      Draft EA Preparation**

The EYW's and FAA's comments on the Preliminary Draft EA will be incorporated into a Draft EA document. This task includes document preparation, word processing, graphics preparation, and management Quality Assurance/Quality Control. URS will provide 95 copies of the Draft EA document for distribution (20 EYW, 5 FAA, 2 FDOT, 3 URS, and 65 copies for distribution to Federal, state and local agencies and the general public). URS will also prepare all text, tables and graphics of the Draft EA document in electronic format (.pdf), such that CD versions of the entire document are available if they are requested by a reviewing entity. This Scope of Services anticipates producing twenty-five (25) CD versions of the Draft EA.

URS will prepare a distribution list and a signed distribution letter on EYW letterhead. URS will be responsible for reproduction and distribution of the letter and Draft EA reports. URS will supervise the preparation of two (2) newspaper notices of availability which will be provided to the EYW for publication in local newspapers. Draft EA exhibits will be produced in color as appropriate.

Product: Draft EA

Primary Responsibility: URS.

#### **Task B4          Public Involvement**

A public involvement program will be implemented to allow interested agencies, groups and individuals the opportunity to review and comment on the EA study. During the course of study, all views will be carefully weighed and solutions developed which would best serve the common interests of the public. The public concerned with the future design and operation of EYW comprises many groups around the metropolitan area. These include adjacent neighborhoods, airport users, regional businesses and civic groups.

##### **Task B4.1      Mailing List**

A mailing list will be assembled and continuously updated based on URS's list for early notification letters and information provided by the EYW. The list will include Federal, state and local agencies, elected officials, organizations, interest groups and attendees of all project meetings. The list will be expanded through the course of the study as necessary.

##### **Task B4.2      Public Information Meeting**

One (1) additional Public Information Meeting (PIM) will be conducted during Phase II of the preparation of the EA. The PIM will be accomplished following development of the Affected Environment descriptions and the Environmental Consequences analyses, and will be designed to notify the public and agencies of the preliminary findings of the EA study.

The PIM will be held in an informal open-house format late in the afternoon to early in the evening for a period of up to three hours (typically between 5 p.m. and 8 p.m.). Representatives from the EYW and URS will staff the meetings during the entire period to talk individually with citizens about their concerns. URS will prepare

Primary Responsibility: URS.

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Product: Draft EA

Primary Responsibility: URS.

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The PIM will be held in an informal open-house format late in the afternoon to early in the evening for a period of up to three hours (typically between 5 p.m. and 8 p.m.). Representatives from the EYW and URS will staff the meetings during the entire period to talk individually with citizens about their concerns. URS will prepare

meeting handout materials and furnish up to twenty (20) board-mounted graphics (maps, charts, etc.) to be on display so that citizens can become familiar with the issues and impacts of the project and to locate their respective residence or business relative to the project. Comment forms will be prepared by URS and distributed at the meetings.

URS will prepare advertisements for the meetings and coordinate the timely publication of advertising for community notifications at least two weeks prior to the PIM. EYW will cover the costs of publishing the advertisements in local newspapers for the PIM. EYW will also cover the costs associated with providing the meeting room facilities and equipment including chairs, tables, easels, and audio/video equipment (if needed). URS will cover costs associated with the provision of up to two (2) court stenographers for the meeting to take verbatim transcripts of all public and agency comments made during the PIM. Up to six (6) URS representatives will attend the PIM.

Product: Conduct one (1) Public Information Meeting.

Primary Responsibility: URS.

#### **Task B4.3      Public Hearing**

URS will assist the EYW in conducting a combined Public Information Workshop (PIW) / Public Hearing (Hearing) to be held no less than 30 days after the publication of the Draft EA. The objective of the PIW/Hearing will be to present the results of the environmental impact analysis and the findings of the Draft EA in the same informal setting and manner as was used in the previous PIM. The objective of the PIW/Hearing will be to provide an opportunity for the public to comment on the Draft EA. The PIW/Hearing can be held in several different formats at the discretion of the EYW. Hearing options include the following:

Provide an opportunity for public comment on the Draft EA during the PIW by allowing the public to submit written and/or verbal comments at any time during the PIW.

During the PIW, a separate Hearing room can be established in which a designated Hearing Officer will preside over the orderly hearing of oral public comments on the Draft EA.

If mandated by the laws of Monroe County, the Hearing can be conducted before the Board of County Commissioners at a regularly scheduled or special session of the Board.

Regardless of the format selected, URS will provide up to two (2) court stenographers to record a verbatim transcript of the oral comments submitted during the PIW/Hearing. Written comments and private verbal comments will be accepted anytime during the PIW and Hearing.

URS will coordinate the timely advertising for community notification at least 30 days prior to the PIW/Hearing. URS will prepare advertisements for the PIW/Hearing. EYW will be responsible for costs associated with publishing the advertisements as described in Task 2.4.2. EYW will also cover the costs associated with providing the meeting facility and equipment including chairs, tables, easels, and audio/video equipment. Up to six (6) URS representatives will participate in the joint PIW/Hearing. The results of the PIW/Hearing will be

documented for use by URS in preparing a summary of public involvement and in preparing a response to public comments.

Product: Conduct of a PIW / Public Hearing

Primary Responsibility: URS.

#### **Task B5      Draft EA Comment Analysis**

URS will compile all comments received during the public involvement process and on the Draft EA, including letters, comment forms, and court reporter transcripts. Comment submittals will be inventoried through a computerized database system. All comments will be reviewed, summarized, and cross-referenced to the commenter. The comments and responses will be organized into a format to be included within an appendix to the Final EA.

Comments will be summarized and catalogued into a database using URS's Lotus Notes system. The following process will be used:

Each comment document received by URS will be assigned a sequential identification number.

URS will review each comment document and identify and enter into the database the following information:

- Name and address of the commenter.
- Document Identification number.
- Based on an encoding system approved by the EYW and FAA, identify potential impacts or other issues raised in the comment document.

URS will prepare a list of issues based on comments received, including a summary statement of each issue.

URS will prepare draft responses to all summarized comments received from the PIM and the PIW/Hearing as well as agency review of the Draft EA. EYW and FAA will review all comments, taking into account and evaluating URS's draft responses for disposition. It is expected that in general, comments will require one of two types of action. Either the matter has been discussed adequately in the Draft EA or it has not been discussed adequately. In the former case, URS will draft a brief but complete explanation of the adequacy of the Draft EA with respect to the comment, with a reference to the appropriate section(s) of the Draft EA. In the latter case, URS will recommend, and perform if so directed by EYW and FAA, necessary additional investigations or studies and/or prepare additional or modified material for inclusion in the Final EA in response to the comment. Any additional investigations or studies and the preparation of additional materials, if significantly beyond that contemplated and budgeted, may be conducted through an additional Professional Service Order. In the event the additional studies or investigations are prepared by others, URS will be responsible for supervision of its adequacy and recommending to EYW and FAA an appropriate response to the comment. EYW and FAA will oversee this process and approve the substantive issues that will receive responses. EYW and FAA will determine the adequacy of all responses.

documented for use by URS in preparing a summary of public involvement and in preparing a response to public comments.

Product: *Conduct of a PIW / Public Hearing*

Primary Responsibility: *URS.*

**Task B5      Draft EA Comment Analysis**

URS will compile all comments received during the public involvement process and on the Draft EA, including letters, comment forms, and court reporter transcripts. Comment submittals will be inventoried through a computerized database system. All comments will be reviewed, summarized, and cross-referenced to the commenter. The comments and responses will be organized into a format to be included within an appendix to the Final EA.

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Product: Draft EA Comment Database with responses

Primary Responsibility: URS.

**Task B6      Final EA Report Preparation**

**Task B6.1      Preliminary Final EA**

URS will update and revise the Draft EA document to convert it to a Preliminary Final EA. Necessary revisions will be included into the text and additional sections, such as the summary of the Public Hearing, the comment/response appendices and additional analyses which are within the Scope of Services. This task includes the technical specialist document preparation, word processing, graphics preparation, and management Quality Assurance/Quality Control. Thirty-two (32) copies of the document will be provided (20 EYW, 8 FAA, 2 FDOT, 2 URS).

Product: Preliminary Final EA

Primary Responsibility: URS.

**Task B6.2      Final EA Preparation**

EYW's and FAA's comments on the Preliminary Final EA will be incorporated into the Final EA document. This task includes the technical specialist document preparation, word processing, graphics preparation, and management Quality Assurance/Quality Control. Thirty (30) copies of the Final EA will be provided (15 EYW, 5 FAA, 5 FDOT, 5 URS). URS shall also prepare all text, tables and graphics of the Final EA document in electronic format (.pdf), such that CD versions of the entire document are available if they are requested by a reviewing entity. This Scope of Services anticipates producing five (5) CD versions of the Final EA.

This task assumes that URS will assist the FAA in the preparation of the Finding of No Significant Impact (FONSI) determination or EIS determination.

Product: Final EA

Primary Responsibility: URS.

**PART C:      ENVIRONMENTAL PERMITTING**

**Task C1      Data Collection and Assessment**

**Task C1.1:      Wetlands Field Investigation and Jurisdictional Determination**

URS will determine and flag the jurisdictional boundaries of wetlands found within and adjacent to the project area. These determinations will be undertaken using the guidelines found within Chapter 62-340 - Delineation of the Landward Extent of Wetlands and Surface Waters (Florida Administrative Code) and the 1987 Corps of Engineers Wetlands Delineation Manual (Technical Report Y-87-1).

Field surveys of the affected area will be conducted to identify jurisdictional wetlands in the project areas and potential impacts to those wetlands as a result of the construction and operation of the proposed action and the development alternatives. Two environmental specialists will accomplish two trips to EYW for a period of five (5) days each trip to field evaluate the study area, collect data, to determine the extent of impacts of each alternative, and to evaluate avoidance alternatives.

#### **Task C1.2 Wetland Jurisdictional Report**

Upon completion of wetland jurisdictional determinations and their field survey, URS will develop a Wetlands Delineation Report which will include the information gathered during the wetlands determination. Drafts of this report will be submitted to the EYW for review and comment. Upon approval of the report by the EYW, it will be submitted to the SFWMD and the ACOE for their review and approval.

The following information will be contained within this report:

- A description of the methods used to determine the landward extent of wetlands within and adjacent to the project area,
- A description of the various wetlands found within and adjacent to the project area,
- US Army Corps of Engineers wetlands data sheets, and
- A specific purpose survey of the wetland boundaries (survey to be completed by the Airport or its survey consultant).

Product: *Wetlands Jurisdictional Report*

Primary Responsibility: *URS.*

#### **Task C1.3 Biotic Community Assessments**

The baseline data for the EA will be verified through a field review of the areas that will be conducted using the most recent available aerial mapping. Field surveys will be conducted as part of Task C1.1. Lists of animal species known or having the potential to occur in the areas will be compiled from available data and field reviews and presented in the EA. The potential impacts to these communities due to the construction and operation of the proposed improvements and alternatives will be quantified and compared. The results will be coordinated with the appropriate Federal, state and local agencies including the U.S. Fish and Wildlife Service (FWS), the National Marine Fisheries Service (NMFS), and the Florida Fish and Wildlife Conservation Commission (FFWCC).



Product: Assessment of potential impact to biotic communities.

Primary Responsibility: URS.

#### **Task C1.4      Essential Fish Habitat Assessment**

An Essential Fish Habitat (EFH) assessment will be prepared to support the permit application AND for FAA's consultation with NOAA National Marine Fisheries Service. The EFH assessment will include a review of scientific literature concerning habitat and species potentially affected by the project; an analysis of individual and cumulative impacts to EFH; an analysis of potential impacts to federally managed and associated species (by life history stage); a determination of potential effect; and potential mitigation to minimize and offset project impacts.

Product: Assessment of potential impact to Essential Fish Habitat.

Primary Responsibility: URS.

#### **Task C1.5      Protected Species Assessments**

URS will assess the project area for the presence of protected species. These assessments will be done using procedures found within the Florida Fish and Wildlife Conservation Commission (FFWCC) - Wildlife Methodology Guidelines (1988). This task will include coordination with the FFWCC, the US Fish and Wildlife Service (USFWS), and the Florida Natural Areas Inventory (FNAI) for the purpose of obtaining existing information on the documented presence of protected species within and adjacent to the project area. (NOTE: For the purposes of this scope of service and cost estimate, it is assumed that this task will be completed as part of the development of the Environmental Assessment of this project. Information collected as part of the EA shall be used in the development of the environmental permit applications discussed under Task C.4 below.)

The effect of the alternatives under study upon Federal and state-listed plants and animals and their habitats will be evaluated as part of this task.

This task does not include seasonal assessments of the project area for specific flowering plant species or seasonal animal species, nor does it include such sampling methods as field trap, drift nets, etc. for the collection of mammals, birds, reptiles, amphibians, or invertebrates. Formal consultations with the USFWS and/or the FFWCC and the development of a Biological Assessment for submittal to the USFWS are also not included as part of this task. (NOTE: If during the development of the EA it is determined that these assessments will be required in order for issuance of an Army Corps of Engineers (ACOE) - 404 Permit or a South Florida Water Management District (SFWMD) - Environmental Resource Permit, they will be completed under the Optional Task Scope of Services for "Biological Assessment and Formal Section 7 Consultation".)

Product: Assessment of potential impact to protected species.

Primary Responsibility: URS.

**Task C2      RSA Design Services**

**Task C2.1      Engineering Support for Alternatives Analysis**

This task will provide engineering information and analyses in support of the alternatives analysis performed in Task A4. The analyses performed on selected alternatives as part of this task will include maximum feasible cost estimates and life cycle cost estimates pursuant to Order 5200.9 for selected alternatives that would meet the Purpose and Need as defined as part of Task A3. This task may include coordination with potential EMAS providers for design and planning information to be used in the assessment of alternatives.

Product: Engineering data in compliance with Order 5200.9

Primary Responsibility: URS.

**Task C2.2      Conceptual Design of RSA Alternatives**

URS will develop conceptual designs for up to three (3) RSA alternatives to a level of detail that will allow meaningful comparison of both the projected costs and environmental impacts of the alternatives as part of EA preparation and as part of the analysis of practicable alternatives pursuant to §404(b)(1) of the Clean Water Act.

Product: Conceptual designs for up to three (3) alternatives

Primary Responsibility: URS.

**Task C2.3      Preliminary Design of Preferred RSA Alternative**

URS will develop preliminary engineering design plans for the preferred RSA alternative to a level adequate to support the preparation of the Joint Environmental Resource (ERP) / 404 permit application. For the purposes of this Scope of Service, it is anticipated that the project design plans will be at approximately the 30% phase and the project stormwater management plans will be at approximately the 90% plans. Topographic surveys required for design will be provided to URS by EYW.

Product: Preliminary design for one (1) preferred alternatives

Primary Responsibility: URS.

**Task C3      Drainage Design**

**Task C3.1      Data Collection and Review**

Existing data related to drainage at the airport will be collected and reviewed. This data may include existing drainage studies, soil information, land use maps, floodplain maps, aerial photographs, topographic maps, and

existing permits. Field visits will be made to determine existing site and drainage conditions in the RSA project area and on-site mitigation area.

#### **Task C3.2      Drainage Calculations**

Drainage calculations for the proposed project (Runway Safety Area and on-site mitigation area) will be developed including drainage basin delineation, rainfall volumes, design storm events, offsite flows, tailwater elevation, stormwater treatment volumes and peak stages and flows. The most recent existing Airport Master Drainage Plan will be used to assist in the completion of this task. The AdICPR hydrologic/hydraulic model will be utilized in the hydrologic and hydraulic analysis. The proposed stormwater system design will meet SFWMD regulatory requirements.

To meet regulatory agencies requirements, stormwater Best Management Practices (BMP's) will also be identified to provide stormwater treatment and peak volume attenuation (if required) for the proposed improvements. Alternative BMP's will be identified including swales, dry ponds, wet ponds, etc. URS will meet with the Airport to discuss the BMP alternatives and to select the preferred option.

*Product:* Drainage calculations for the proposed project

*Primary Responsibility:* URS.

#### **Task C3.3      Drainage Report:**

A drainage report will be prepared documenting the existing and proposed drainage conditions and summarizing the results of the above drainage tasks. Three (3) copies of the draft report will be submitted to EYW for review and comments. A meeting will be held with EYW to discuss any comments. Three (3) copies of the final report will be submitted to the EYW. The drainage report will be used in the proposed project environmental permit application packages submittal to the regulatory agencies.

A Drainage Plan Map will be prepared in AutoCAD to identify basin boundaries and acreage, stormwater BMP locations, and outfall locations.

*Product:* Drainage report for the proposed project

*Primary Responsibility:* URS.

#### **Task C3.4      Drainage Design Plans**

URS will develop a stormwater management design and prepare drainage construction plans for the proposed improvements which will be included in the overall project plan set developed in Task C2.3 and included in permit application submittals. The drainage plans will identify proposed drainage structures, pipes, ditches, detention pond areas, outfall locations and sizes and drainage details.

Product: Drainage design plans for the proposed project

Primary Responsibility: URS.

**Task C4      Permit Applications and Mitigation Plans**

**Task C4.1      Preparation of Joint Environmental Resource / 404 Permit Application**

URS will develop written texts, graphics, and drawings necessary for inclusion within the Joint Environmental Resource (ERP) / 404 permit application. The information which will be contained within this application shall include:

- Permit application forms,
- An alternatives analysis describing the proposed project and various alternatives considered prior to the selection of the proposed project,
- A description of the existing natural environmental features found within and adjacent to the project area,
- An assessment of the project's potential impacts on protected species,
- Assessments of the value of the wetlands proposed for impact by the proposed project. This assessment will be done using the Wetland Rapid Assessment Procedure (WRAP) or Estuarine Wetland Rapid Assessment Procedure (E-WRAP) required by the ACOE, and the Unified Mitigation Assessment Methodology (UMAM) required by the SWFMD,
- Tables showing the types and acreage of wetlands found within the project area, and the acreage of each wetland type proposed for impact by the project,
- An assessment of the proposed project's impacts on Essential Fish Habitat (EFH) as required by the National Marine Fisheries Service (NMFS),
- A listing of property owners located adjacent to the proposed project,
- 8 by 11 inch sketches showing the proposed projects impacts to wetlands and other waters of the State and of the United States,
- Aerials (scale 1" = 200') showing the proposed project alignment and the boundaries of wetlands located within the project area,
- Drainage plans and calculations for the proposed project,
- A conceptual sediment and erosion control plan showing methods to be used to maintain water quality requirements during construction activities.

It is presently assumed that the SFWMD application for this project will be for a Construction ERP and that the level of detail of the application will address information necessary for the construction permit.

Product: Joint Environmental Resource (ERP) / 404 permit application

Primary Responsibility: URS.

#### **Task C4.2      Develop Preliminary Mitigation Plan**

URS will develop a preliminary mitigation plan to off-set impacts to wetlands which will occur as a result of the construction of the proposed project. This plan will be submitted to the SFWMD and the ACOE for their review and approval. Information used in the development of this plan will be derived from information collected during the development of the project's Environmental Assessment and from information contained within the March 2003 feasibility study developed for the Runway Safety Area. This information will also be supplemented with additional information required by the regulatory agencies. Tasks associated with the development of the plan shall include the detailed review of potential mitigation sites, selection of a proposed mitigation site(s), the development of a written description of the proposed mitigation and how it will off-set projected impacts, the development of graphics showing the proposed mitigation layout, and the development of tables showing the types and number of plants to be placed in the proposed mitigation area.

For the purposes of this Scope of Service and Cost Estimate, it is assumed that a total of four (4) mitigation sites (one on-site and three off-site) will be required.

Product: Preliminary mitigation plan

Primary Responsibility: URS.

#### **Task C4.3      Mitigation Construction Plans**

Upon approval of the preliminary mitigation plan by the SFWMD and the ACOE, URS will develop mitigation construction plans, specifications, general and specific notes needed to construct the approved plan. As presently projected this mitigation plan will consist of four sites and the construction plan set will include four discrete sets of mitigation plans. Each of these plan sets will include the following sheets:

- Cover sheet,
- Quantities sheets,
- Typical and specific notes sheets,
- Geometry plan view sheets,
- Grading plan view sheets,
- Cross sections sheets,
- Planting plan view sheets,

- Typical planting sections sheets,
- Structures sheets,
- Geotechnical sheets,
- Erosion control sheets, and
- Planting Quantities and notes sheets.

As part of this task, URS will develop preliminary construction cost estimates for the mitigation plan. These estimates will be completed at the 60%, 90%, and 100% design phases.

Product: Mitigation construction plans

Primary Responsibility: URS.

## **PART D: MEETINGS AND COORDINATION**

### **Task D1 Project Team Meetings, Presentation, and Coordination**

This task includes preparation for and participation in meetings with the EYW and the FAA, along with general coordination with the EYW and FAA staffs in regard to project development strategies, purpose of and need for the proposed airport improvements, alternatives to be considered and analyzed in the EA, selection of the preferred alternative, design features of the proposed improvements, mitigation for unavoidable impacts, discussion of draft documentation, and preparation for public meetings and agency meetings.

URS will arrange and participate in up to twelve (12) meetings as part of this task. It is anticipated within this Scope of Services that these meetings will be distributed as follows: ten (10) meetings with representatives of the FAA and/or EYW in Monroe County, Florida, with three (3) members of the URS Team attending; and two (2) meetings with the FAA, in the Orlando Airports District Office (ADO) in Orlando, Florida with three (3) members of the URS Team attending.

### **Task D2 Resource Agency Meetings, Presentations, and Coordination**

This task includes preparation for and participation in meetings with the USACE, SFWMD, USFWS, NMFS, FFWCC and other commenting agencies, along with general coordination with those agencies, in assisting the BOCC and EYW in the permitting process. URS will assist EYW in the development of handouts, graphics, and boards needed for meetings/presentations of the project to these agencies. URS will coordinate all submittals to the SFWMD and the USACE with EYW and will provide the EYW with draft copies of all deliverables for their review prior to their submittal to the SFWMD and the USACE.

Up to three (3) members of the URS Team will participate in a total of seven (7) meetings with the listed agencies in Key West, FL (5 meetings) or West Palm Beach, FL (2 meetings) to discuss the permit applications, project purpose and need, alternatives, projected project impacts, and proposed mitigation.

## **PART E: PROJECT MANAGEMENT**

### **Task E1 Project Management**

This task involves the contractual, costing, administrative and managerial activities necessary to implement and oversee the project. It includes the development of draft and final scopes of services and cost estimates, preparation and processing of contract documents, the routine coordination and management of the project, preparation of monthly project progress reports, meeting minutes preparation, subcontractor coordination, EYW and FAA coordination, and project management plan preparation and updates.

### **Task E2 Project Management Plan and Quality Assurance Plan**

Following notice to proceed, URS will develop a Project Management Plan (PMP) for implementing the project. Included will be the development of a specific staffing plan, project files, and project-specific Quality Assurance/Quality Control (QA/QC) procedures.

### **Task E3 Progress Reporting**

URS shall submit monthly written reports on the progress of their work to the EYW. The monthly reports shall describe the present status of each aspect of the work, any problems encountered, the amount of work accomplished, and a comparison of actual accomplishments to the goals established for the period. In the event that established goals have not been met, the monthly report shall describe the reasons for delays. The monthly report shall also describe recommendations for modifications to the Scope of Services, changes in methodology or schedules for completion, decisions or conclusions which would alter the course of the study, and dates of upcoming meetings.

Products: Project Management Plan, Quality Assurance Plan, Progress Reports, Schedules, Scopes, Cost Estimates.

Primary Responsibility: URS.

## **PART F: OPTIONAL TASKS**

### **Task F1 Formal Section 106 Coordination for Historical Resource Impacts**

The following task would be authorized by the EYW if consultation with the State Historic Preservation Officer indicates potential adverse effects on historic resources and that mitigation is required to offset the potential adverse effects. Work on this task will not begin until a separate notice to proceed is issued by the EYW.

In the event that it is determined that the project will have an adverse effect (pursuant to 36 CFR 800.5) upon National Historic Property Register-listed resources or other resources determined to be eligible for listing in the National Register, consultation will be entered into between the Board of County Commissioners, the FAA, the Florida SHPO, URS, and interested local parties to develop a plan to mitigate that effect upon the historic resource. This plan will be documented in a Memorandum of Agreement (MOA), which will specify the mitigation measures to be incorporated into the Proposed Project.

This task will encompass consultation, meetings, and the drafting of an MOA. It does not include the completion of any mitigation measures, as these remain speculative. This task assumes three (3) URS personnel will attend and conduct two (2) consultation meetings in Key West. It is assumed that meetings will be conducted at the airport or at a location in Key West provided by the Board of County Commissioners.

*Product: Section 106 Memorandum of Agreement*

*Primary Responsibility: URS*

## **Task F2      Biological Assessment and Formal Section 7 Consultation**

The following task would be authorized by the EYW if consultation with the USFWS indicates that a formal Section 7 Consultation pursuant to the Endangered Species Act of 1973, as amended, will be required or if it is determined that the development of conservation measures will be necessary to off-set adverse impacts to protected species. Work on this task will not begin until a separate notice to proceed is issued by the EYW.

### **Task F2.1      Protected Species Surveys**

URS will survey the project area for the presence of protected species specified by the US Fish and Wildlife (USFWS) and/or the National Marine Fisheries Services (NMFS) as being of concern and which may be impacted by the construction and/or operation of the proposed project. Prior to the start of any surveys, species specific sampling protocol will be developed and submitted to the USFWS/NMFS for their review and concurrence. Sampling protocol will consist of scientifically accepted procedures and will conform to requirements established in species specific "Species Recovery Plan", if one existing for the species in question.

Specific methodologies used may include seasonal assessments of the project area for specific flowering plant species or seasonal animal species, and the use of such sampling methods as field trap, drift nets, etc. for the collection of mammals, birds, reptiles, amphibians, and/or invertebrates.

For the purpose of this Scope of Services and Cost Estimate, it is assumed that no more than six (6) species will be surveyed as part of this task. In addition, it is assumed that no more than twelve (12) forty hour work weeks will be required to complete assessments of these species over a twelve (12) month period.

### **Task F2.2      Assessment of Potential Impacts to Protected Species**

Using information collected during Task F2.1 above, a determination of the presence or absence of each assessed species will be undertaken. If it is determined that an assessed species is present within the project study area, a determination of the potential affects the project may have on that species will be completed. A determination of affect for each species present will be done using that species recovery plan, available species specific data (e.g., life history, breeding requirements, etc.), and other scientifically accepted methods agreed to by the USFWS/NMFS.



### **Task F2.3      Development of Conservation Measures**

If a determination that the proposed project will have a significant impact on an assessed species, potential conservation measures to off-set that impact will be developed. Conservation measures shall consist of actions which may be taken to help ensure the continued existence of a federally listed protected species. Examples of conservation measures include but are not limited to:

- construction restrictions during specific (e.g., breeding, etc.) times of the year to prevent harassment of protected species,
- construction related safety measures implemented to prevent harm to a protected species (e.g., construction conditions),
- the development of a relocation plan for plant and/or animal species located within the project area,
- conservation and management of lands known to be used by a protected species, and
- restoration, conservation and management of lands which historically were used by a protected species.

The specific conservation measures developed will be dependent on the species to be impacted and on the proposed impact. For the purpose of this Scope of Service and Cost Estimate, it is assumed that no more than six (6) species will be assessed as part of this task.

Product: Description of conservation measures

Primary Responsibility: URS.

### **Task F2.4      Biological Assessment Development**

Using information collected and/or developed during Tasks F2.1 through F2.3 above, URS shall develop a Biological Assessment for those federally listed protected species which will be impacted by the proposed project. This Biological Assessment shall conform to the guidelines found within the USFWS/NMFS, "Endangered Species Consultation Handbook" (Final, March 1998) and shall include the following information:

- A description of the proposed action (i.e., proposed project),
- A description of the specific area that may be affected by the action (i.e., project area and potentially areas adjacent to the project area),
- A description of the listed species or critical habitat that may be affected by the action,
- A description of the manner in which the action may affect any listed species or critical habitat,
- An analysis of any cumulative effects on the listed species,

- Relevant reports/information, including information collected during field reviews of the action area, etc., and
- Potential conservation measures which may be undertaken to ensure the continued existence of listed species which may be affected by the action.

For the purpose of this Scope of Services and Cost Estimate, it is assumed that no more than six (6) species will be assessed as part of this task.

Product: *Biological Assessment*

Primary Responsibility: *URS.*

#### **Task F2.5      Formal Section 7 Consultation**

URS shall assist the Federal Aviation Authority (FAA) and the Airport with the coordination and processing of information associated with and necessary for a project specific Formal Section 7 Consultation pursuant to 50 CFR 402.14. As part of this task, URS shall assist in the development of a written request for Formal Section 7 Consultation to be submitted to the USFWS/NMFS by the federal agency undertaking the action (i.e., FAA). URS shall also provide copies of the BA developed for the project to the FAA for submittal to the USFWS/NMFS in support of the FAA's Section 7 Consultation request.

As part of this task, URS shall attend up to three (3) meetings with the USFWS/NMFS and up to two (2) meetings with the FFWCC to discuss and review information submitted and to address questions the agencies may have on the information submitted.

#### **PART G      SERVICES AND/OR MATERIALS TO BE PROVIDED BY THE AIRPORT:**

The Airport shall provide the following information or perform the following activities:

- Provide a mylar or digital copy of the most recent aerial photograph of areas which may potentially be used in the development of off-site mitigation areas or conservation measures at a scale not greater than 1"=200'.
- Complete reviews of submitted documents within 14 days of submittal,
- Provide right-of-entry to sites to be reviewed during the development of conservation measures,
- Pay all permit application fees,
- Provide right-of-entry to the proposed mitigation site(s), and
- Specific purpose survey of wetland jurisdictional boundaries identified as part of Task C1.

## **PART H        ACTIVITIES NOT INCLUDED IN SCOPE OF SERVICES**

The following actions are not included in this Scope of Services. These activities may be provided under the provisions of an additional or separate Professional Service Order:

- Analysis of more than three (3) alternatives, in addition to the No-Action Alternative, in the EA or 404(b)(1) analyses
- Detailed analysis of any off-site alternatives identified in Task A
- Field investigations related to wetlands, biotic communities, and protected species in excess of the period specified in Task C1.1.
- Business or agency meetings in excess of the number specified in Part D of this Scope of Services
- Public meetings in excess of the number specified in Parts A and B of this Scope of Services
- Additional analysis beyond those specified in this Scope of Services or the requirements of FAA Orders 1050.1D and 5050.4A
- Formal Section 106 consultation with the SHPO, except as authorized under Task F1
- Formal Section 7 consultation with the USFWS or preparation of a Biological Assessment, except as authorized under Task F2
- Chemical or biological water quality sampling and analysis
- Formal Level 1 or Level 2 environmental audits related to hazardous materials
- Noise modeling
- Noise sensitive land use analysis related to noise modeling
- Archaeological field work, a Phase I archaeological survey, or any underwater archaeological investigations
- A formal Section 303(c) analysis and statement
- A detail demographic analysis for the environmental justice evaluation
- A detailed socioeconomic impact analysis
- Air quality dispersion modeling or General Conformity Determination
- Additional analyses of comments on the Draft EA beyond that contemplated in this Scope of Services or analysis of or responses to more than 1,000 pages of comments

- The development of conservation, management or restoration plans or guidelines, or listed species relocation plans or guidelines, associated with conservation measures developed as part of Task F2.3
- USFWS or Florida Fish and Wildlife Conservation Commission (FFWCC) Incidental take permits or relocation permits for any protected species
- Development of specific purpose surveys for wetland jurisdictional limits. Preparation of topographic surveys for design purposes.
- Construction oversight activities or bid process services.

**Key West International Airport  
EA - RW 9/27 SAFETY AREAS  
Project Cost Estimate: URS, Inc.**

Date: May 15, 2002

Task		Description		Preliminary		Project Manager		Sr Planning		Pl Planning		Jr Planning		Technician		Assistant		Project		Project		Project	
				Hours		Cost		Hours		Cost		Hours		Cost		Hours		Cost		Total Labor		Grand Total	
				Hours		Cost		Hours		Cost		Hours		Cost		Hours		Cost		Hours		Cost	
Part A: Project Definition and Identification of Alternatives																							
A1	Early Notification	2	\$340	4	\$420		\$0	4	\$200	12	\$940	4	\$240	8	\$300	32	\$2,520	\$130	\$2,650				
A2	EA Introduction	4	\$680	4	\$420		\$0	8	\$760	8	\$680	12	\$720	8	\$300	42	\$2,448	\$4,450	\$7,898				
A3	Definition of Purpose & Need	4	\$680	8	\$640	12	\$1,800	16	\$1,520	8	\$680	12	\$720	16	\$800	76	\$6,620	\$100	\$6,804				
A4	Identification of Alternatives	8	\$1,360	16	\$1,680	32	\$4,800	32	\$3,940	24	\$1,880	80	\$4,800	20	\$1,000	212	\$17,560	\$310	\$17,870				
A6	Public/Agency Coordination Meeting	16	\$3,080	34	\$3,170	30	\$2,500	30	\$2,850	46	\$2,360	18	\$900	12	\$600	178	\$16,900	\$3,904	\$22,804				
Subtotal Part A		36	\$4,120	66	\$9,830	64	\$8,880	96	\$6,680	100	\$7,680	124	\$7,440	60	\$3,680	540	\$47,400	\$10,000	\$58,000				
Part B: Preparation of EA																							
B1	Affected Environment																						
B1.1	Study Area Definition, Base Map	4	\$680	8	\$640	4	\$500	8	\$760	20	\$1,400	20	\$1,200	8	\$400	72	\$5,760	\$942	\$6,722				
B1.2	Description of the Affected Environment	4	\$680	20	\$2,100	20	\$2,500	52	\$4,940	100	\$7,000	80	\$4,800	32	\$1,600	308	\$23,820	\$2,149	\$25,769				
Subtotal Task B1		8	\$1,360	28	\$2,640	24	\$1,000	60	\$5,700	120	\$8,400	100	\$6,000	40	\$2,000	380	\$29,400	\$3,091	\$32,491				
B2	Environmental Consequences																						
B2.1	Wetlands	2	\$340	2	\$210	4	\$500	6	\$570		\$0	4	\$240	2	\$100	20	\$1,980	\$55	\$2,035				
B2.2	Biotic Communities	2	\$340	2	\$210	2	\$250	4	\$300		\$0	4	\$240	2	\$100	16	\$1,520	\$30	\$1,550				
B2.3	Essential Fish Habitat Assessment	2	\$340	2	\$210	2	\$250	8	\$760		\$0		\$0	2	\$100	16	\$1,680	\$14	\$1,674				
B2.4	Endangered & Threatened Species	2	\$340	2	\$210	2	\$250	8	\$760		\$0		\$0	2	\$100	16	\$1,660	\$26	\$1,686				
B2.5	Water Quality	4	\$680	12	\$1,260	24	\$3,000	40	\$3,800	16	\$1,120	20	\$1,200	4	\$200	120	\$11,200	\$973	\$12,173				
B2.6	Floodplains		\$0	4	\$420	4	\$500	16	\$1,520	4	\$200	8	\$480	4	\$200	40	\$3,400	\$13	\$3,413				
B2.7	Hazardous Materials		\$0	2	\$210	4	\$500	16	\$1,520	8	\$560	8	\$480	2	\$100	40	\$3,370	\$547	\$3,917				
B2.8	Historic/Archaeological Resources	4	\$680	24	\$2,520	24	\$3,000	32	\$3,040	32	\$2,240	16	\$960	8	\$400	140	\$12,840	\$1,782	\$14,622				
B2.9	DOT Section 303(c) Resources	2	\$340	4	\$420	4	\$500	4	\$380	8	\$560	14	\$840	4	\$200	40	\$3,240	\$6	\$3,246				
B2.10	Noise Impacts		\$0	4	\$420	4	\$500	8	\$570	4	\$280	0	\$0	2	\$100	20	\$1,870	\$5	\$1,875				
B2.11	Compatible Land Use		\$0	2	\$210	2	\$250	4	\$380	4	\$280	6	\$360	2	\$100	20	\$1,580	\$2	\$1,582				
B2.12	Social Impacts		\$0	2	\$210	2	\$250	8	\$760	4	\$280	8	\$0	4	\$200	20	\$1,700	\$1	\$1,701				
B2.13	Induced Socioeconomic Impacts		\$0	2	\$210		\$0	2	\$190	2	\$140		\$0	2	\$100	8	\$640	\$1	\$641				
B2.14	Air Quality	2	\$340	2	\$210	4	\$500	40	\$3,800	24	\$1,680	6	\$360	2	\$100	80	\$6,900	\$34	\$7,024				
B2.15	Coastal Zone Management/Coastal Barriers	2	\$340	4	\$420	4	\$500	12	\$1,140	12	\$840	4	\$240	2	\$100	40	\$3,580	\$7	\$3,587				
B2.16	Wad & Semic Rivers		\$0	1	\$105		\$0		\$0	2	\$140		\$0	1	\$50	4	\$295	\$0	\$295				
B2.17	Farmland		\$0	1	\$105		\$0		\$0	2	\$140		\$0	1	\$50	4	\$295	\$0	\$295				
B2.18	Energy Supply & Natural Resources		\$0	2	\$210		\$0	4	\$380	8	\$560	4	\$240	2	\$100	20	\$1,490	\$1	\$1,491				
B2.19	Light Emissions		\$0	2	\$210		\$0	4	\$380	8	\$560		\$0	2	\$100	16	\$1,250	\$1	\$1,251				
B2.20	Solid Waste Impacts		\$0	2	\$210	4	\$500	16	\$1,520	16	\$1,120	8	\$480	2	\$100	48	\$3,930	\$1	\$3,931				
B2.21	Construction Impacts		\$0	4	\$420	4	\$500	20	\$1,900	8	\$560	8	\$480	4	\$200	48	\$4,000	\$22	\$4,022				
B2.22	Cumulative Impacts/Other Considerations	4	\$680	16	\$1,680	8	\$1,000	26	\$2,660	20	\$1,400		\$0	4	\$200	80	\$7,620	\$10	\$7,630				
Subtotal Task B2		28	\$4,420	66	\$16,296	162	\$12,758	278	\$26,410	182	\$12,740	110	\$6,000	60	\$3,080	856	\$76,210	\$3,436	\$79,646				
B3	Draft EA Report Preparation																						
B3.1	Preliminary Draft EA	16	\$2,720	24	\$2,520	20	\$2,500	50	\$4,750	60	\$4,200	24	\$1,440	120	\$6,000	314	\$24,134	\$1,185	\$25,319				
B3.2	Draft EA Preparation	8	\$1,360	24	\$2,520	16	\$2,000	28	\$2,600	40	\$2,800	16	\$960	220	\$11,000	352	\$23,300	\$5,521	\$28,821				
Subtotal Task B3		24	\$4,080	48	\$5,040	36	\$4,500	78	\$7,410	100	\$7,000	40	\$2,400	340	\$17,000	666	\$47,430	\$6,405	\$53,835				

**Key West International Airport  
EA - RW 9/27 SAFETY AREAS  
Project Cost Estimate: URS, Inc.**

Date: May 12, 2004

Task	Description	Principal		Project Manager		Sr Planner/Eng		Proj Planner/Eng		Jr Planner/Eng		Technician		Admin/VP		Project Total Labor		Project Total Expenses	Project Grand Total
		Hours	\$170	Hours	\$165	Hours	\$125	Hours	\$95	Hours	\$70	Hours	\$50	Hours	\$30	Hours	Cost	Expenses	Grand Total
		Hours	Cost	Hours	Cost	Hours	Cost	Hours	Cost	Hours	Cost	Hours	Cost	Hours	Cost	Hours	Cost	Expenses	Grand Total
B4	Public Involvement																		
B4.1	Meeting List	2	\$340	4	\$420	2	\$250	2	\$190	24	\$1,680		\$0	16	\$800	50	\$3,880	\$2	\$3,882
B4.2	Public Information Meeting	20	\$3,400	40	\$4,200	32	\$4,000	40 <sup>1</sup>	\$3,800	48	\$3,360	24	\$1,440	16	\$800	220	\$11,000	\$6,951	\$27,951
B4.3	Public Hearing	20	\$3,400	40	\$5,040	24	\$3,000	60	\$5,700	40	\$2,800	32	\$1,920	16	\$800	240	\$22,800	\$6,930	\$29,730
	Subtotal Task B4	42	\$7,140	82	\$9,660	58	\$7,250	102	\$9,690	112	\$7,940	56	\$3,360	48	\$2,400	516	\$47,340	\$12,700	\$60,040
B5	Draft EA Comment Analysis																		
	Draft EA Comment Analysis	16	\$2,720	40	\$4,200	32	\$4,000	56	\$5,320	80	\$5,600		\$0	20	\$1,000	244	\$22,840	\$16	\$22,856
	Subtotal Task B5	16	\$2,720	40	\$4,200	32	\$4,000	56	\$5,320	80	\$5,600		\$0	20	\$1,000	244	\$22,840	\$16	\$22,856
B6	Final EA Report Preparation																		
B6.1	Preliminary Final EA Preparation	8	\$1,360	20	\$2,100	20	\$2,500	32	\$3,040	40	\$2,800	16	\$960	100	\$5,000	236	\$17,760	\$1,470	\$19,230
B6.2	Final EA Preparation	4	\$680	16	\$1,680	16	\$1,000	8	\$760	32	\$2,240	12	\$720	180	\$9,000	268	\$17,080	\$1,419	\$18,499
	Subtotal Task B6	12	\$2,040	36	\$3,780	36	\$4,500	40	\$3,800	72	\$5,040	28	\$1,680	280	\$14,000	504	\$34,840	\$2,889	\$37,729
	Subtotal Part B	128	\$21,740	342	\$35,910	266	\$36,000	614	\$58,330	666	\$46,820	324	\$20,040	788	\$39,400	3160	\$258,040	\$29,637	\$287,677
	Part C: Environmental Permitting																		
C1	Data Collection and Assessment																		
C1.1	Wetlands Field Investigation and Jurisdictional Determination	1	\$170	2	\$210	2	\$250	104	\$9,800	104	\$7,280	0	\$0		\$0	213	\$17,750	\$4,750	\$22,500
C1.2	Wetland Jurisdictional Report	2	\$340	2	\$210	8	\$750	32	\$3,040	24	\$1,680	12	\$720	2	\$100	80	\$6,840	\$365	\$7,205
C1.3	Biotic Community Assessments	1	\$170	1	\$105	4	\$500	24	\$2,280	16	\$1,120	12	\$720	2	\$100	80	\$4,995	\$247	\$5,242
C1.4	Essential Fish Habitat Assessment	2	\$340	2	\$210	4	\$500	24	\$2,280	16	\$1,120	12	\$720	2	\$100	62	\$5,270	\$183	\$5,453
C1.5	Protected Species Assessment	2	\$340	2	\$210	4	\$500	24	\$2,280	16	\$1,120	12	\$720	2	\$100	62	\$5,270	\$261	\$5,531
	Subtotal Task C1	6	\$1,360	9	\$945	20	\$2,880	200	\$19,700	176	\$12,320	48	\$2,800	8	\$400	477	\$40,185	\$5,818	\$46,003
C2	RSA Design Services																		
C2.1	Engineering Support for Alternatives Analysis	2	\$340	8	\$940	24	\$3,000	8	\$780		\$0	40	\$2,400		\$0	82	\$7,340	\$1,119	\$8,459
C2.2	Conceptual Design of RSA Alternatives	2	\$340	12	\$1,280	12	\$1,500	24	\$2,280		\$0	24	\$1,440		\$0	74	\$6,620	\$482	\$7,102
C2.3	Preliminary Design of Preferred RSA Alternative	2	\$340	16	\$1,680	24	\$3,000	40	\$3,800		\$0	120	\$7,200		\$0	202	\$18,020	\$1,119	\$19,139
C2.4	Engineering Support for Mitigation Design	2	\$340	32	\$3,360	8	\$1,000		\$0		\$0	80	\$3,600		\$0	102	\$8,300	\$482	\$8,782
	Subtotal Task C2	8	\$1,360	68	\$7,140	68	\$9,880	72	\$6,880	8	\$780	244	\$14,640	8	\$400	400	\$36,400	\$3,182	\$40,582
C3	Drainage Design																		
C3.1	Data Collection and Review	2	\$340	8	\$940	24	\$3,000	16	\$1,520		\$0	24	\$1,440		\$0	74	\$7,140	\$482	\$7,622
C3.2	Drainage Calculations	2	\$340	4	\$420	16	\$2,000	24	\$2,280		\$0	16	\$800		\$0	62	\$6,000	\$0	\$6,000
C3.3	Drainage Report	2	\$340	8	\$940	24	\$3,000		\$0		\$0		\$0	40	\$2,000	74	\$6,180	\$0	\$6,180
C3.4	Drainage Design Plans	2	\$340	8	\$940	24	\$3,000	8	\$780		\$0	40	\$2,400		\$0	82	\$7,340	\$0	\$7,340
	Subtotal Task C3	8	\$1,360	28	\$2,940	68	\$11,880	48	\$4,800	8	\$780	80	\$4,800	40	\$2,000	282	\$28,660	\$482	\$29,142
C4	Permit Applications and Mitigation Plans																		
C4.1	Preparation of Joint Environmental Resource / 404 Permit Application	4	\$680	4	\$420	28	\$3,900	48	\$8,360	72	\$5,040	64	\$3,840	16	\$800	276	\$22,740	\$965	\$23,705
C4.2	Develop Preliminary Mitigation Plan	8	\$1,020	8	\$940	60	\$7,500	120	\$12,300	126	\$8,820	64	\$3,840		\$0	384	\$34,370	\$2,775	\$37,145
C4.3	Mitigation Construction Plans	4	\$680	4	\$420	156	\$19,500	408	\$38,760		\$0	544	\$32,840	40	\$2,000	1,156	\$94,000	\$840	\$94,840
	Subtotal Task C4	16	\$2,380	16	\$1,680	244	\$30,900	626	\$59,470	198	\$13,880	672	\$40,320	56	\$2,800	1428	\$131,110	\$4,630	\$135,740
	Subtotal Part C	28	\$6,400	121	\$12,780	428	\$52,880	664	\$66,830	274	\$20,180	1044	\$62,840	100	\$5,200	3057	\$296,415	\$16,872	\$313,287

**Key West International Airport  
EA - RW 9/27 SAFETY AREAS  
Project Cost Estimate: URS, Inc.**

Date: May 12, 2004

May 10, 2001																			
Task	Description	Principal		Project Manager		Sr. Planner/Analyst		Proj. Planning/Analysis		Jr. Planning/Analysis		Technician		Admin/Support		Project Total Labor		Project Total Expenses	Project Grand Total
		Hours	Cost	Hours	Cost	Hours	Cost	Hours	Cost	Hours	Cost	Hours	Cost	Hours	Cost	Hours	Cost		
Part D: Meetings and Coordination																			
D1	Project Team Meetings, Presentations, and Coordination																		
	Project Team Meetings, Presentations, and Coordination (12)	104	\$17,000	130	\$13,000	104	\$13,000		\$0	48	\$3,360	48	\$2,880	24	\$1,200	458	\$51,770	\$19,057	\$65,427
	Subtotal Task D1	104	\$17,000	130	\$13,000	104	\$13,000	0	\$0	48	\$3,360	48	\$2,880	24	\$1,200	458	\$51,770	\$19,057	\$65,427
D2	Resource Agency Meetings/Presentations, and Coordination																		
	Resource Agency Meetings (7)	84	\$10,000	80	\$8,400	84	\$8,800		\$0	28	\$1,900	28	\$1,000	14	\$700	278	\$31,820	\$11,320	\$42,940
	Subtotal Task D2	84	\$10,000	80	\$8,400	84	\$8,800	0	\$0	28	\$1,900	28	\$1,000	14	\$700	278	\$31,820	\$11,320	\$42,940
	Subtotal Part D	188	\$27,000	210	\$22,400	188	\$22,800	0	\$0	76	\$5,260	76	\$4,500	38	\$1,900	736	\$83,590	\$30,377	\$108,370
Part E: Project Management																			
E1	Project Management																		
	Project Management	40	\$6,800	160	\$16,800	16	\$2,000		\$0		\$0		\$0	120	\$6,000	335	\$31,600	\$349	\$31,949
			\$0		\$0		\$0		\$0		\$0		\$0		\$0	0	\$0	\$0	\$0
	Subtotal Task E1	40	\$6,800	160	\$16,800	16	\$2,000	0	\$0	0	\$0	0	\$0	120	\$6,000	335	\$31,600	\$349	\$31,949
E2	Project Management Plan and Quality Assurance Plan																		
	Project Management/QA Plan	4	\$680	16	\$1,600	4	\$500	16	\$1,520	0	\$0		\$0	8	\$400	48	\$4,780	\$108	\$4,978
			\$0		\$0		\$0		\$0		\$0		\$0		\$0	0	\$0	\$0	\$0
	Subtotal Task E2	4	\$680	16	\$1,600	4	\$500	16	\$1,520	0	\$0	0	\$0	8	\$400	48	\$4,780	\$108	\$4,978
E3	Progress Reporting																		
	Progress Reports	8	\$1,020	24	\$2,520		\$0		\$0		\$0		\$0	6	\$300	38	\$3,840	\$8	\$3,848
	Subtotal Task E3	8	\$1,020	24	\$2,520	0	\$0	0	\$0	0	\$0	0	\$0	6	\$300	38	\$3,840	\$8	\$3,848
	Subtotal Part E	52	\$8,500	200	\$21,000	20	\$2,500	16	\$1,520	0	\$0	0	\$0	134	\$6,700	420	\$48,220	\$555	\$48,775
Project Subtotal (Base EA Fee)		420	\$71,480	630	\$58,595	608	\$120,000	1674	\$159,830	1216	\$85,120	1578	\$84,680	1128	\$56,300	7913	\$885,125	\$80,210	\$765,335
Part F: Optional Tasks																			
F1	Formal Section 106 Coordination for Historical Resource Impact																		
	Conduct 106 Coordination/Prepare MOA	14	\$2,380	56	\$5,880	48	\$6,000	140	\$13,300	40	\$2,800	24	\$1,440	40	\$2,000	362	\$33,800	\$7,110	\$36,910
	Subtotal Task F1	14	\$2,380	56	\$5,880	48	\$6,000	140	\$13,300	40	\$2,800	24	\$1,440	40	\$2,000	362	\$33,800	\$7,110	\$36,910
F2	Biological Assessment and Formal Section 7 Consultation																		
F2.1	Protected Species Surveys	0	\$0	4	\$420	24	\$3,000	352	\$33,440	320	\$22,400	12	\$720	8	\$400	720	\$60,380	\$96	\$60,476
F2.2	Assessment of Potential Impacts to Protected Species	4	\$680	2	\$210	12	\$1,500	32	\$3,040	32	\$2,240	28	\$1,680	8	\$400	118	\$9,750	\$112	\$9,862
F2.3	Development of Conservation Measures	2	\$340	2	\$210	32	\$4,000	114	\$10,830	114	\$7,880	40	\$2,400	8	\$400	312	\$26,150	\$16	\$26,166
F2.4	Biological Assessment Development	2	\$340	2	\$210	12	\$1,500	32	\$3,040	24	\$1,680	16	\$960	8	\$400	96	\$8,130	\$1,072	\$9,202
F2.5	Formal Section 7 Consultation	8	\$1,360	16	\$1,680	48	\$5,750	48	\$4,560	32	\$2,240	24	\$1,440	10	\$500	184	\$17,530	\$5,318	\$22,848
	Subtotal Task F2	16	\$2,720	26	\$2,730	128	\$15,750	578	\$54,910	522	\$36,560	120	\$7,200	42	\$2,100	1430	\$121,850	\$6,826	\$128,676
	Optional Tasks Subtotal (Part F)	30	\$5,100	82	\$8,610	176	\$21,750	718	\$68,210	562	\$39,360	164	\$8,640	82	\$4,100	1792	\$155,750	\$9,736	\$165,486
URS Project Total		450	\$76,580	1021	\$107,205	1134	\$141,750	2392	\$227,240	1778	\$124,460	1722	\$103,320	1208	\$60,400	8705	\$840,875	\$89,941	\$930,816

**Key West International Airport  
EA - RW 9/27 SAFETY AREAS  
Project Cost Estimate: URS, Inc.**

Date: May 12, 2004

Rev. 12-12-2009																		
Task	Description	Airfare		Rental Car		Hotel		Daily Meals		Parking		Orlando Travel		Orlando Lunch		TRAVEL TOTAL		
		Unit Cost	\$200	Unit Cost	\$75	Unit Cost	\$150	Unit Cost	\$50	Unit Cost	\$12	Unit Cost	\$45	Unit Cost	\$15	Unit Cost		
		Units	Cost	Units	Cost	Units	Cost	Units	Cost	Units	Cost	Units	Cost	Units	Cost	Units	Cost	
Part A: Project Definition and Identification of Alternatives																		
A1	Early Notification		\$0		\$0		\$0		\$0		\$0		\$0		\$0		\$0	
A2	EA Introduction		\$0		\$0		\$0		\$0		\$0		\$0		\$0		\$0	
A3	Definition of Purpose & Need		\$0		\$0		\$0		\$0		\$0		\$0		\$0		\$0	
A4	Identification of Alternatives		\$0		\$0		\$0		\$0		\$0		\$0		\$0		\$0	
A5	Public/Agency Coordination Meeting	6	\$2,400	2	\$150	6	\$720	12	\$600	12	\$144		\$0		\$0		\$0	
	Subtotal Part A	6	\$2,400	2	\$150	6	\$720	12	\$600	12	\$144	0	\$0		\$0		\$4,014	
Part B: Preparation of Environmental Assessment																		
B1	Affected Environment																\$4,014	
B1.1	Study Area Definition, Base Map	1	\$400	2	\$150	1	\$120	2	\$100	2	\$24		\$0		\$0		\$794	
B1.2	Description of the Affected Environment	2	\$800	2	\$150	2	\$240	4	\$200	4	\$48		\$0		\$0		\$1,438	
	Subtotal Task B1	3	\$1,200	4	\$300	3	\$360	6	\$300	6	\$72	0	\$0		\$0		\$2,232	
B2	Environmental Consequences																\$2,232	
B2.1	Wetlands		\$0		\$0		\$0		\$0		\$0		\$0		\$0		\$0	
B2.2	Biotic Communities		\$0		\$0		\$0		\$0		\$0		\$0		\$0		\$0	
B2.3	Essential Fish Habitat Assessment		\$0		\$0		\$0		\$0		\$0		\$0		\$0		\$0	
B2.4	Endangered & Threatened Species		\$0		\$0		\$0		\$0		\$0		\$0		\$0		\$0	
B2.5	Water Quality	1	\$400	2	\$150	1	\$120	2	\$100	2	\$24		\$0		\$0		\$0	
B2.6	Floodplains		\$0		\$0		\$0		\$0		\$0		\$0		\$0		\$794	
B2.7	Hazardous Materials	1	\$400	1	\$75		\$0	1	\$50	1	\$12		\$0		\$0		\$0	
B2.8	Historic/Archaeological Resources	2	\$800	2	\$150	4	\$480	4	\$200	4	\$48		\$0		\$0		\$1,678	
B2.9	DOT Section 303(c) Resources		\$0		\$0		\$0		\$0		\$0		\$0		\$0		\$0	
B2.10	Noise		\$0		\$0		\$0		\$0		\$0		\$0		\$0		\$0	
B2.11	Compatible Land Use		\$0		\$0		\$0		\$0		\$0		\$0		\$0		\$0	
B2.12	Social Impacts		\$0		\$0		\$0		\$0		\$0		\$0		\$0		\$0	
B2.13	Induced Socioeconomic Impacts		\$0		\$0		\$0		\$0		\$0		\$0		\$0		\$0	
B2.14	Air Quality		\$0		\$0		\$0		\$0		\$0		\$0		\$0		\$0	
B2.15	Coastal Zone Management/Coastal Barriers		\$0		\$0		\$0		\$0		\$0		\$0		\$0		\$0	
B2.16	Wild & Scenic Rivers		\$0		\$0		\$0		\$0		\$0		\$0		\$0		\$0	
B2.17	Farmland		\$0		\$0		\$0		\$0		\$0		\$0		\$0		\$0	
B2.18	Energy Supply & Natural Resources		\$0		\$0		\$0		\$0		\$0		\$0		\$0		\$0	
B2.19	Light Emissions		\$0		\$0		\$0		\$0		\$0		\$0		\$0		\$0	
B2.20	Solid Waste Impacts		\$0		\$0		\$0		\$0		\$0		\$0		\$0		\$0	
B2.21	Construction Impacts		\$0		\$0		\$0		\$0		\$0		\$0		\$0		\$0	
B2.22	Cumulative Impacts/Other Considerations		\$0		\$0		\$0		\$0		\$0		\$0		\$0		\$0	
	Subtotal Task B2	4	\$1,600	5	\$375	5	\$600	7	\$350	7	\$84	0	\$0		\$0		\$0	
B3	Draft EA Report Preparation																\$3,809	
B3.1	Preliminary Draft EA		\$0		\$0		\$0		\$0		\$0		\$0		\$0		\$0	
B3.2	Draft EA Preparation		\$0		\$0		\$0		\$0		\$0		\$0		\$0		\$0	
	Subtotal Task B3	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0		\$0		\$0	
B4	Public Involvement																\$0	
B4.1	Meeting List		\$0		\$0		\$0	1	\$0		\$0		\$0		\$0		\$0	



**Key West International Airport  
EA - RW 9/27 SAFETY AREAS  
Project Cost Estimate: URS, Inc.**

Date: May 12, 2004

Task	Description	Airfare		Rental Car		Hotel		Daily Meals		Parking		Out-of-Town Travel		Out-of-Town Lunch		Travel	
		Units	Cost	Units	Cost	Units	Cost	Units	Cost	Units	Cost	Units	Cost	Units	Cost	Units	Cost
B4.2	Public Information Meeting	8	\$2,400	2	\$150	6	\$720	12	\$600	12	\$144		\$0		\$0		\$0
B4.3	Public Hearing	4	\$2,400	2	\$150	6	\$720	12	\$600	12	\$144		\$0		\$0		\$0
	Subtotal Task B4	12	\$4,800	4	\$300	12	\$1,440	24	\$1,200	24	\$288	0	\$0	0	\$0	0	\$0
B5	Draft EA Comment Analysis								\$0		\$0		\$0		\$0		\$0
	Draft EA Comment Analysis		\$0		\$0		\$0		\$0		\$0		\$0		\$0		\$0
	Subtotal Task B5	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0
B6	Final EA Report Preparation								\$0		\$0		\$0		\$0		\$0
B6.1	Preliminary Final EA Preparation		\$0		\$0		\$0		\$0		\$0		\$0		\$0		\$0
B6.2	Final EA Preparation		\$0		\$0		\$0		\$0		\$0		\$0		\$0		\$0
	Subtotal Task B6		\$0	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0
	Subtotal Part B	10	\$7,000	13	\$975	20	\$2,400	37	\$1,800	25	\$444	0	\$0	0	\$0	0	\$0
	Part C: Environmental Permitting																\$13,200
C1	Data Collection and Assessment Wetlands Field Investigation and Jurisdictional Determination	4	\$1,600	10	\$750	10	\$1,200	20	\$1,000	10	\$120		\$0		\$0		\$4,670
C1.2	Wetland Jurisdictional Report		\$0		\$0		\$0		\$0		\$0		\$0		\$0		\$0
C1.3	Biotic Community Assessments		\$0		\$0		\$0		\$0		\$0		\$0		\$0		\$0
C1.4	Essential Fish Habitat Assessment		\$0		\$0		\$0		\$0		\$0		\$0		\$0		\$0
C1.5	Protected Species Assessment		\$0		\$0		\$0		\$0		\$0		\$0		\$0		\$0
	Subtotal Task C1	4	\$1,600	10	\$750	10	\$1,200	20	\$1,000	10	\$120	0	\$0	0	\$0	0	\$0
C2	RSA Design Services																\$4,670
C2.1	Engineering Support for Alternatives Analysis	2	\$800	1	\$75	1	\$120	2	\$100	2	\$24		\$0		\$0		\$1,119
C2.2	Conceptual Design of RSA Alternatives	1	\$400		\$0		\$0	1	\$50	1	\$12		\$0		\$0		\$462
C2.3	Preliminary Design of Preferred RSA Alternative	2	\$800	1	\$75	1	\$120	2	\$100	2	\$24		\$0		\$0		\$1,119
C2.4	Engineering Support for Mitigation Design	1	\$400		\$0		\$0	1	\$50	1	\$12		\$0		\$0		\$462
	Subtotal Task C2	6	\$2,400	2	\$150	2	\$240	6	\$200	6	\$72	0	\$0	0	\$0	0	\$0
C3	Drainage Design																\$3,162
C3.1	Data Collection and Review	1	\$400		\$0		\$0	1	\$50	1	\$12		\$0		\$0		\$462
C3.2	Drainage Calculations		\$0		\$0		\$0		\$0		\$0		\$0		\$0		\$0
C3.3	Drainage Report		\$0		\$0		\$0		\$0		\$0		\$0		\$0		\$0
C3.4	Drainage Design Plans		\$0		\$0		\$0		\$0		\$0		\$0		\$0		\$0
	Subtotal Task C3	1	\$400	0	\$0	0	\$0	1	\$50	1	\$12	0	\$0	0	\$0	0	\$0
C4	Permit Applications and Mitigations Plans Preparation of Joint Environmental Resource / 404 Permit Application		\$0		\$0		\$0		\$0		\$0		\$0		\$0		\$0
C4.1	Develop Preliminary Mitigation Plan	2	\$800	5	\$375	5	\$600	10	\$500	5	\$60		\$0		\$0		\$2,335
C4.3	Mitigation Construction Plans		\$0		\$0		\$0		\$0		\$0		\$0		\$0		\$0
	Subtotal Task C4	2	\$800	5	\$375	5	\$600	10	\$500	5	\$60	0	\$0	0	\$0	0	\$0
	Subtotal Part C	13	\$5,200	17	\$1,275	17	\$2,040	37	\$1,850	22	\$264	0	\$0	0	\$0	0	\$0
	Part D: Meetings and Coordination																\$10,820
D1	Project Team Meetings, Presentations, and Coordination																
	Project Team Meetings	27	\$10,800	11	\$825	6	\$720	13	\$650	33	\$396	3	\$135	9	\$90	0	\$0
	Subtotal Task D1	27	\$10,800	11	\$825	6	\$720	13	\$650	33	\$396	3	\$135	9	\$90	0	\$0
																	\$13,616

**Key West International Airport**  
**EA - RW 9/27 SAFETY AREAS**  
**Project Cost Estimate: URS, Inc.**

Date: May 12, 2004

Task	Description	Airfare		Rental Car		Hotel		Daily Meals		Parking		Orlando Travel		Orlando Lunch		TRAVEL	
		Unit Cost		Unit Cost		Unit Cost		Unit Cost		Unit Cost		Unit Cost		Unit Cost		TOTAL	
		Units	Cost	Units	Cost	Units	Cost	Units	Cost	Units	Cost	Units	Cost	Units	Cost	Units	COST
D2	Resource Agency Meetings, Presentations, and Coordination																
	Resource Agency Meetings	21	\$8,400	9	\$675	8	\$720	11	\$550	27	\$324	0	\$0	0	\$0	0	\$0
	Subtotal Task D2	21	\$8,400	9	\$675	8	\$720	11	\$550	27	\$324	0	\$0	0	\$0	0	\$0
	Subtotal Part D	40	\$19,200	20	\$1,300	12	\$1,440	24	\$1,200	60	\$720	3	\$135	9	\$90	0	\$0
	Part E: Project Management																\$24,185
E1	Project Management																
	Project Management		\$0		\$0		\$0		\$0		\$0		\$0		\$0		\$0
	Subtotal Task E1	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0
E2	Project Management Plan and Quality Assurance Plan																
	Project Management/QA Plan		\$0		\$0		\$0		\$0		\$0		\$0		\$0		\$0
	Subtotal Task E2	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0
E3	Progress Reporting																
	Progress Reports		\$0		\$0		\$0		\$0		\$0		\$0		\$0		\$0
	Subtotal Task E3	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0
	Subtotal Part E	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0
	Project Subtotal (Base EA Fee)	86	\$34,400	52	\$3,900	55	\$6,800	110	\$5,500	119	\$1,572	3	\$135	9	\$90	0	\$0
	Part F: Optional Tasks																\$52,197
F1	Formal Section 106 Coordination for Historical Resource Impact																
	Conduct 106 Coordination/ Prepare MOA	6	\$2,400	2	\$150	0	\$0	2	\$100	6	\$72		\$0		\$0		\$0
	Subtotal Task F1	6	\$2,400	2	\$150	0	\$0	2	\$100	6	\$72	0	\$0	0	\$0	0	\$0
F2	Biological Assessment and Formal Section 7 Consultation																\$2,722
F2.1	Protected Species Surveys		\$0		\$0		\$0		\$0		\$0		\$0		\$0		\$0
F2.2	Assessment of Potential Impacts to Protected Species		\$0		\$0		\$0		\$0		\$0		\$0		\$0		\$0
F2.3	Development of Conservation Measures		\$0		\$0		\$0		\$0		\$0		\$0		\$0		\$0
F2.4	Biological Assessment Development		\$0		\$0		\$0		\$0		\$0		\$0		\$0		\$0
F2.5	Formal Section 7 Consultation	10	\$4,000	5	\$375		\$0	10	\$500	5	\$60		\$0		\$0		\$0
	Subtotal Task F2	10	\$4,000	5	\$375	0	\$0	10	\$500	5	\$60	0	\$0	0	\$0	0	\$0
	Optional Tasks Subtotal (Part F)	16	\$6,400	7	\$525	0	\$0	12	\$600	11	\$132	0	\$0	0	\$0	0	\$0
	Project Total	102	\$40,800	59	\$4,425	55	\$6,800	122	\$6,100	130	\$1,704	3	\$135	9	\$90	0	\$0

**Key West International Airport  
EA - RW 9/27 SAFETY AREAS  
Project Cost Estimate: URS, Inc.**

Date: May 22, 2004

Task	Description	RW Act1		Cater Act1		RW 11a17		Cater 11a17		Covers		Landscaping		Overnight Stayment		CDB		PRODUCTION TOTAL COST
		Unit Cost	\$0.00	Unit Cost	\$0.00	Unit Cost	\$0.00	Unit Cost	\$0.75	Unit Cost	\$0.00	Unit Cost	\$1.00	Unit Cost	\$25.00	Unit Cost	\$5.00	
Part A: Project Definition and Identification of Alternatives																		
A1	Early Notification	240	\$19		\$0		\$0	80	\$45		\$0		\$0	2	\$50		\$0	\$114
A2	EA Introduction	100	\$8	30	\$18		\$0		\$0	28	\$14	28	\$28	2	\$50		\$0	\$118
A3	Definition of Purpose & Need	150	\$12	86	\$34		\$0	28	\$21	28	\$14	28	\$28	3	\$75		\$0	\$184
A4	Identification of Alternatives	650	\$68	28	\$17		\$0	112	\$84	28	\$14	28	\$28	3	\$75		\$0	\$286
A5	Public/Agency Coordination Meeting	200	\$18	45	\$27		\$0		\$0		\$0		\$0	2	\$50		\$0	\$83
Subtotal Part A		1840	\$133	189	\$85	0	\$0	208	\$159	84	\$42	84	\$84	12	\$300	0	\$0	\$798
Part B: Preparation of Environmental Assessment																		
B1	Affected Environment																	
B1.1	Study Area Definition, Base Map	25	\$2		\$0		\$0	50	\$38		\$0		\$0	2	\$50	2	\$10	\$100
B1.2	Description of the Affected Environment	500	\$40	12	\$7	24	\$8	24	\$18		\$0		\$0		\$0		\$0	\$71
Subtotal Task B1		525	\$42	12	\$7	24	\$8	74	\$56	0	\$0	0	\$0	2	\$50	2	\$10	\$171
B2	Environmental Consequences																	
B2.1	Wetlands	50	\$4		\$0		\$0	4	\$3		\$0		\$0		\$0		\$0	\$7
B2.2	Biotic Communities	50	\$4		\$0		\$0	2	\$2		\$0		\$0		\$0		\$0	\$6
B2.3	Essential Fish Habitat Assessment	50	\$4		\$0		\$0	2	\$2		\$0		\$0		\$0		\$0	\$6
B2.4	Endangered & Threatened Species	50	\$4		\$0		\$0	2	\$2		\$0		\$0		\$0		\$0	\$6
B2.5	Water Quality	250	\$20		\$0		\$0	25	\$19		\$0		\$0		\$0		\$0	\$39
B2.6	Floodplains	10	\$1		\$0		\$0	5	\$4		\$0		\$0		\$0		\$0	\$5
B2.7	Hazardous Materials	25	\$2		\$0		\$0	5	\$4		\$0		\$0		\$0		\$0	\$6
B2.8	Historic/Archaeological Resources	200	\$18		\$0		\$0	10	\$8		\$0		\$0		\$0		\$0	\$74
B2.9	DOT Section 303(c) Resources	10	\$1		\$0		\$0	2	\$2		\$0		\$0	2	\$50		\$0	\$2
B2.10	Noise	10	\$1		\$0		\$0	5	\$4		\$0		\$0		\$0		\$0	\$5
B2.11	Compatible Land Use	10	\$1		\$0		\$0	2	\$2		\$0		\$0		\$0		\$0	\$2
B2.12	Social Impacts	10	\$1		\$0		\$0		\$0		\$0		\$0		\$0		\$0	\$1
B2.13	Induced Socioeconomic Impacts	10	\$1		\$0		\$0		\$0		\$0		\$0		\$0		\$0	\$1
B2.14	Air Quality	100	\$8		\$0	2	\$1		\$0		\$0		\$0		\$0		\$0	\$34
B2.15	Coastal Zone Management/Coastal Barriers	25	\$2		\$0	5	\$1	5	\$4		\$0		\$0	1	\$25		\$0	\$7
B2.16	Wild & Scenic Rivers	5	\$0		\$0		\$0		\$0		\$0		\$0		\$0		\$0	\$0
B2.17	Farmstead	5	\$0		\$0		\$0		\$0		\$0		\$0		\$0		\$0	\$0
B2.18	Energy Supply & Natural Resources	10	\$1		\$0		\$0		\$0		\$0		\$0		\$0		\$0	\$1
B2.19	Light Emissions	10	\$1		\$0		\$0		\$0		\$0		\$0		\$0		\$0	\$1
B2.20	Solid Waste Impacts	15	\$1		\$0		\$0		\$0		\$0		\$0		\$0		\$0	\$2
B2.21	Construction Impacts	25	\$2		\$0		\$0		\$0		\$0		\$0		\$0		\$0	\$2
B2.22	Cumulative Impacts/Other Considerations	25	\$2		\$0		\$0		\$0		\$0		\$0		\$0		\$0	\$2
Subtotal Task B2		985	\$78	0	\$0	7	\$2	89	\$52	0	\$0	0	\$0	3	\$75	0	\$0	\$205
B3	Draft EA Report Preparation																	
B3.1	Preliminary Draft EA	6400	\$512	128	\$77	64	\$16	512	\$384	64	\$32	64	\$64	4	\$100		\$0	\$1,185
B3.2	Draft EA Preparation	19000	\$1,520	380	\$228	190	\$48	1520	\$1,140	190	\$76	190	\$190	75	\$1,875	24	\$1,175	\$1,224
Subtotal Task B3		25400	\$2,032	508	\$305	254	\$64	2032	\$1,524	254	\$102	254	\$254	79	\$1,975	24	\$1,175	\$6,405
B4	Public Involvement																	
B4.1	Meeting List	25	\$2		\$0		\$0		\$0		\$0		\$0		\$0		\$0	\$2

**Key West International Airport**  
**EA - RW 9/27 SAFETY AREAS**  
**Project Cost Estimate: URS, Inc.**

Date: May 12, 2004

Task	Description	RW 9/27		Color 9/27		RW 9/27		Color 9/27		Covers		Landscape		Overnight Shipment		CDs		PRODUCTION
		Unit Cost	\$0.00	Unit Cost	\$0.00	Unit Cost	\$0.00	Unit Cost	\$0.00	Unit Cost	\$0.00	Unit Cost	\$0.00	Unit Cost	\$0.00	Unit Cost	\$0.00	
B4.2	Public Information Meeting	150	\$12	50	\$30		\$0		\$0		\$0		\$0		\$0		\$0	\$42
B4.3	Public Hearing	150	\$12	50	\$30		\$0		\$0		\$0		\$0		\$0		\$0	\$42
	Subtotal Task B4	325	\$24	100	\$60	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0	\$84
B5	Draft EA Comment Analysis																	
	Draft EA Comment Analysis	200	\$16		\$0		\$0		\$0		\$0		\$0		\$0		\$0	\$16
	Subtotal Task B5	200	\$16	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0	\$16
B6	Final EA Report Preparation																	
B6.1	Preliminary Final EA Preparation	9000	\$720	144	\$66	144	\$36	576	\$432	64	\$32	64	\$64	4	\$100		\$0	\$1,470
B6.2	Final EA Preparation	8000	\$600	136	\$82	136	\$34	544	\$408	60	\$30	60	\$60	4	\$100	5	\$25	\$1,419
	Subtotal Task B6		\$1,400	280	\$108	280	\$70	1120	\$840	124	\$62	124	\$124	8	\$200	5	\$25	\$2,889
	Subtotal Part B	27405	\$2,282	900	\$368	906	\$141	3296	\$2,471	378	\$188	378	\$378	92	\$2,300	32	\$160	\$9,772
	Part C: Environmental Permitting																	
C1	Data Collection and Assessment																	
C1.1	Wetlands Field Investigation and Jurisdictional Determination		\$0		\$0		\$0		\$0		\$0		\$0		\$0		\$0	\$0
C1.2	Wetland Jurisdictional Report	1000	\$80	100	\$60		\$0	100	\$75	20	\$10	10	\$10	2	\$50		\$0	\$285
C1.3	Botic Community Assessments	400	\$32	100	\$60		\$0	100	\$75	20	\$10		\$0	2	\$50		\$0	\$227
C1.4	Essential Fish Habitat Assessment	400	\$32	80	\$36		\$0	80	\$45	20	\$10		\$0	2	\$50		\$0	\$173
C1.5	Protected Species Assessment	400	\$48	100	\$90		\$0	100	\$75	20	\$10		\$0	2	\$50		\$0	\$241
	Subtotal Task C1	2400	\$182	380	\$216	0	\$0	280	\$270	60	\$48	10	\$10	6	\$200	0	\$0	\$828
C2	RSA Design Services																	
C2.1	Engineering Support for Alternatives Analysis		\$0		\$0		\$0		\$0		\$0		\$0		\$0		\$0	\$0
C2.2	Conceptual Design of RSA Alternatives		\$0		\$0		\$0		\$0		\$0		\$0		\$0		\$0	\$0
C2.3	Preliminary Design of Preferred RSA Alternative		\$0		\$0		\$0		\$0		\$0		\$0		\$0		\$0	\$0
C2.4	Engineering Support for Mitigation Design		\$0		\$0		\$0		\$0		\$0		\$0		\$0		\$0	\$0
	Subtotal Task C2	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0	\$0
C3	Drainage Design																	
C3.1	Data Collection and Review		\$0		\$0		\$0		\$0		\$0		\$0		\$0		\$0	\$0
C3.2	Drainage Calculations		\$0		\$0		\$0		\$0		\$0		\$0		\$0		\$0	\$0
C3.3	Drainage Report		\$0		\$0		\$0		\$0		\$0		\$0		\$0		\$0	\$0
C3.4	Drainage Design Plans		\$0		\$0		\$0		\$0		\$0		\$0		\$0		\$0	\$0
	Subtotal Task C3	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0	\$0
C4	Permit Applications and Mitigation Plans																	
	Preparation of Joint Environmental Resource / 404 Permit Application	8000	\$640		\$0	400	\$100	100	\$75	40	\$20		\$0	2	\$50		\$0	\$885
C4.2	Develop Preliminary Mitigation Plan	500	\$40		\$0	1600	\$400		\$0		\$0		\$0		\$0		\$0	\$440
C4.3	Mitigation Construction Plans	3000	\$240		\$0	1800	\$400		\$0	30	\$15		\$0	3	\$75		\$0	\$730
	Subtotal Task C4	11500	\$920	0	\$0	3600	\$900	100	\$75	70	\$35	0	\$0	5	\$125	0	\$0	\$2,055
	Subtotal Part C	12895	\$1,112	380	\$216	3606	\$900	480	\$345	130	\$75	10	\$10	13	\$325	0	\$0	\$2,983
	Part D: Meetings and Coordination																	
D1	Project Team Meetings, Presentations, and Coordination																	
	Project Team Meetings	200	\$16		\$0	100	\$25		\$0		\$0		\$0		\$0		\$0	\$41
	Subtotal Task D1	200	\$16	0	\$0	100	\$25	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0	\$41

**Key West International Airport  
EA - RW 9/27 SAFETY AREAS  
Project Cost Estimate: URS, Inc.**

Date: May 12, 2004

Task	Description	R01 R01		C01 C01		R02 R02		C02 C02		C03 C03		C04 C04		C05 C05		C06 C06		C07 C07		C08 C08		C09 C09		C10 C10		C11 C11		C12 C12		C13 C13		C14 C14		C15 C15		C16 C16		C17 C17		C18 C18		C19 C19		C20 C20		C21 C21		C22 C22		C23 C23		C24 C24		C25 C25		C26 C26		C27 C27		C28 C28		C29 C29		C30 C30		C31 C31		C32 C32		C33 C33		C34 C34		C35 C35		C36 C36		C37 C37		C38 C38		C39 C39		C40 C40		C41 C41		C42 C42		C43 C43		C44 C44		C45 C45		C46 C46		C47 C47		C48 C48		C49 C49		C50 C50		C51 C51		C52 C52		C53 C53		C54 C54		C55 C55		C56 C56		C57 C57		C58 C58		C59 C59		C60 C60		C61 C61		C62 C62		C63 C63		C64 C64		C65 C65		C66 C66		C67 C67		C68 C68		C69 C69		C70 C70		C71 C71		C72 C72		C73 C73		C74 C74		C75 C75		C76 C76		C77 C77		C78 C78		C79 C79		C80 C80		C81 C81		C82 C82		C83 C83		C84 C84		C85 C85		C86 C86		C87 C87		C88 C88		C89 C89		C90 C90		C91 C91		C92 C92		C93 C93		C94 C94		C95 C95		C96 C96		C97 C97		C98 C98		C99 C99		C100 C100		C101 C101		C102 C102		C103 C103		C104 C104		C105 C105		C106 C106		C107 C107		C108 C108		C109 C109		C110 C110		C111 C111		C112 C112		C113 C113		C114 C114		C115 C115		C116 C116		C117 C117		C118 C118		C119 C119		C120 C120		C121 C121		C122 C122		C123 C123		C124 C124		C125 C125		C126 C126		C127 C127		C128 C128		C129 C129		C130 C130		C131 C131		C132 C132		C133 C133		C134 C134		C135 C135		C136 C136		C137 C137		C138 C138		C139 C139		C140 C140		C141 C141		C142 C142		C143 C143		C144 C144		C145 C145		C146 C146		C147 C147		C148 C148		C149 C149		C150 C150		C151 C151		C152 C152		C153 C153		C154 C154		C155 C155		C156 C156		C157 C157		C158 C158		C159 C159		C160 C160		C161 C161		C162 C162		C163 C163		C164 C164		C165 C165		C166 C166		C167 C167		C168 C168		C169 C169		C170 C170		C171 C171		C172 C172		C173 C173		C174 C174		C175 C175		C176 C176		C177 C177		C178 C178		C179 C179		C180 C180		C181 C181		C182 C182		C183 C183		C184 C184		C185 C185		C186 C186		C187 C187		C188 C188		C189 C189		C190 C190		C191 C191		C192 C192		C193 C193		C194 C194		C195 C195		C196 C196		C197 C197		C198 C198		C199 C199		C200 C200		C201 C201		C202 C202		C203 C203		C204 C204		C205 C205		C206 C206		C207 C207		C208 C208		C209 C209		C210 C210		C211 C211		C212 C212		C213 C213		C214 C214		C215 C215		C216 C216		C217 C217		C218 C218		C219 C219		C220 C220		C221 C221		C222 C222		C223 C223		C224 C224		C225 C225		C226 C226		C227 C227		C228 C228		C229 C229		C230 C230		C231 C231		C232 C232		C233 C233		C234 C234		C235 C235		C236 C236		C237 C237		C238 C238		C239 C239		C240 C240		C241 C241		C242 C242		C243 C243		C244 C244		C245 C245		C246 C246		C247 C247		C248 C248		C249 C249		C250 C250		C251 C251		C252 C252		C253 C253		C254 C254		C255 C255		C256 C256		C257 C257		C258 C258		C259 C259		C260 C260		C261 C261		C262 C262		C263 C263		C264 C264		C265 C265		C266 C266		C267 C267		C268 C268		C269 C269		C270 C270		C271 C271		C272 C272		C273 C273		C274 C274		C275 C275		C276 C276		C277 C277		C278 C278		C279 C279		C280 C280		C281 C281		C282 C282		C283 C283		C284 C284		C285 C285		C286 C286		C287 C287		C288 C288		C289 C289		C290 C290		C291 C291		C292 C292		C293 C293		C294 C294		C295 C295		C296 C296		C297 C297		C298 C298		C299 C299		C300 C300		C301 C301		C302 C302		C303 C303		C304 C304		C305 C305		C306 C306		C307 C307		C308 C308		C309 C309		C310 C310		C311 C311		C312 C312		C313 C313		C314 C314		C315 C315		C316 C316		C317 C317		C318 C318		C319 C319		C320 C320		C321 C321		C322 C322		C323 C323		C324 C324		C325 C325		C326 C326		C327 C327		C328 C328		C329 C329		C330 C330		C331 C331		C332 C332		C333 C333		C334 C334		C335 C335		C336 C336		C337 C337		C338 C338		C339 C339		C340 C340		C341 C341		C342 C342		C343 C343		C344 C344		C345 C345		C346 C346		C347 C347		C348 C348		C349 C349		C350 C350		C351 C351		C352 C352		C353 C353		C354 C354		C355 C355		C356 C356		C357 C357		C358 C358		C359 C359		C360 C360		C361 C361		C362 C362		C363 C363		C364 C364		C365 C365		C366 C366		C367 C367		C368 C368		C369 C369		C370 C370		C371 C371		C372 C372		C373 C373		C374 C374		C375 C375		C376 C376		C377 C377		C378 C378		C379 C379		C380 C380		C381 C381		C382 C382		C383 C383		C384 C384		C385 C385		C386 C386		C387 C387		C388 C388		C389 C389		C390 C390		C391 C391		C392 C392		C393 C393		C394 C394		C395 C395		C396 C396		C397 C397		C398 C398		C399 C399		C400 C400		C401 C401		C402 C402		C403 C403		C404 C404		C405 C405		C406 C406		C407 C407		C408 C408		C409 C409		C410 C410		C411 C411		C412 C412		C413 C413		C414 C414		C415 C415		C416 C416		C417 C417		C418 C418		C419 C419		C420 C420		C421 C421		C422 C422		C423 C423		C424 C424		C425 C425		C426 C426		C427 C427		C428 C428		C429 C429		C430 C430		C431 C431		C432 C432		C433 C433		C434 C434		C435 C435		C436 C436		C437 C437		C438 C438		C439 C439		C440 C440		C441 C441		C442 C442		C443 C443		C444 C444		C445 C445		C446 C446		C447 C447		C448 C448		C449 C449		C450 C450		C451 C451		C452 C452		C453 C453		C454 C454		C455 C455		C456 C456		C457 C457		C458 C458		C459 C459		C460 C460		C461 C461		C462 C462		C463 C463		C464 C464		C465 C465		C466 C466		C467 C467		C468 C468		C469 C469		C470 C470		C471 C471		C472 C472		C473 C473		C474 C474		C475 C475		C476 C476		C477 C477		C478 C478		C479 C479		C480 C480		C481 C481		C482 C482		C483 C483		C484 C484		C485 C485		C486 C486		C487 C487		C488 C488		C489 C489		C490 C490		C491 C491		C492 C492		C493 C493		C494 C494		C495 C495		C496 C496		C497 C497		C498 C498		C499 C499		C500 C500		C501 C501		C502 C502		C503 C503		C504 C504		C505 C505		C506 C506		C507 C507		C508 C508		C509 C509		C510 C510		C511 C511		C512 C512		C513 C513		C514 C514		C515 C515		C516 C516		C517 C517		C518 C518		C519 C519		C520 C520		C521 C521		C522 C522		C523 C523		C524 C524		C525 C525		C526 C526		C527 C527		C528 C528		C529 C529		C530 C530		C531 C531		C532 C532		C533 C533		C534 C534		C535 C535		C536 C536		C537 C537		C538 C538		C539 C539		C540 C540		C541 C541		C542 C542		C543 C543		C544 C544		C545 C545		C546 C546		C547 C547		C548 C548		C549 C549		C550 C550		C551 C551		C552 C552		C553 C553		C554 C554		C555 C555		C556 C556		C557 C557		C558 C558		C559 C559		C560 C560		C561 C561		C562 C562		C563 C563		C564 C564		C565 C565		C566 C566		C567 C567		C568 C568		C569 C569		C570 C570		C571 C571		C572 C572		C573 C573		C574 C574		C575 C575		C576 C576		C577 C577		C578 C578		C579 C579		C580 C580		C581 C581		C582 C582		C583 C583		C584 C584		C585 C585		C586 C586		C587 C587		C588 C588		C589 C589		C590 C590		C591 C591		C592 C592		C593 C593		C594 C594		C595 C595		C596 C596		C597 C597		C598 C598		C599 C599		C600 C600		C601 C601		C602 C602		C603 C603		C604 C604		C605 C605		C606 C606		C607 C607		C608 C608		C609 C609		C610 C610		C611 C611		C612 C612		C613 C613		C614 C614		C615 C615		C616 C616		C617 C617		C618 C618		C619 C619		C620 C620		C621 C621		C622 C622		C623 C623		C624 C624		C625 C625		C626 C626		C627 C627		C628 C628		C629 C629		C630 C630		C631 C631		C632 C632		C633 C633		C634 C634		C635 C635		C636 C636		C637 C637		C638 C638		C639 C639		C640 C640		C641 C641		C642 C642		C643 C643		C644 C644		C645 C645		C646 C646		C647 C647		C648 C648		C649 C649		C650 C650		C651 C651		C652 C652		C653 C653		C654 C654		C655 C655		C656 C656		C657 C657		C658 C658		C659 C659		C660 C660		C661 C661		C662 C662		C663 C663		C664 C664		C665 C665		C666 C666		C667 C667		C668 C668		C669 C669		C670 C670		C671 C671		C672 C672		C673 C673		C674 C674		C675 C675		C676 C676		C677 C677		C678 C678		C679 C679		C680 C680		C681 C681		C682 C682		C683 C683		C684 C684		C685 C685		C686 C686		C687 C687		C688 C688		C689 C689		C690 C690		C691 C691		C692 C692		C693 C693		C694 C694		C695 C695		C696 C696		C697 C697		C698 C698		C699 C699		C700 C700		C701 C701		C702 C702		C703 C703		C704 C704		C705 C705		C706 C706		C707 C707		C708 C708		C709 C709		C710 C710		C711 C711		C712 C712		C713 C713		C714 C714		C715 C715		C716 C716		C717 C717		C718 C718		C719 C719		C720 C720		C721 C721		C722 C722		C723 C723		C724 C724		C725 C725		C726 C726		C727 C727		C728 C728		C729 C729		C730 C730		C731 C731		C732 C732		C733 C733		C734 C734		C735 C735		C736 C736		C737 C737		C738 C738		C739 C739		C740 C740		C741 C741		C742 C742		C743 C743		C744 C744		C745 C745		C746 C746		C747 C747		C748 C748		C749 C749		C750 C750		C751 C751		C752 C752		C753 C753		C754 C754		C755 C755		C756 C756		C757 C757		C758 C758		C759 C759		C760 C760		C761 C761		C762 C762		C763 C763		C764 C764		C765 C765		C766 C766		C767 C767		C768 C768		C769 C769		C770 C770		C771 C771		C772 C772		C773 C773		C774 C774		C775 C775		C776 C776		C777 C777		C778 C778		C779 C779		C780 C780		C781 C781		C782 C782		C783 C783	
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Key West International Airport  
EA - RW 9/27 SAFETY AREAS  
Project Cost Estimate: URS, Inc.

Date: May 12, 2004

Task	Description	HANDOUTS		PRESENTATION BOARDS		COURT REPORTERS		NAIAD DATA SEARCH		POSTAGE		Photo (24" x 36")		ADVERTISEMENT		OTHER		OTHER TOTAL
		Unit Cost	\$1.00	Unit Cost	\$20	Unit Cost	\$1,000	Unit Cost	\$500	Unit Cost	\$0.37	Unit Cost	\$4	Unit Cost	\$700	Unit Cost	\$0	
		Units	Cost	Units	Cost	Units	Cost	Units	Cost	Units	Cost	Units	Cost	Units	Cost	Units	Cost	COST
<b>Part A: Project Definition and Identification of Alternatives</b>																		
A1	Early Notification		\$0		\$0		\$0		\$0	80	\$22		\$0		\$0		\$0	\$22
A2	EA Introduction		\$0		\$0		\$0		\$0		\$0		\$0		\$0	1	\$4,300	\$4,300
A3	Definition of Purpose & Need		\$0		\$0		\$0		\$0		\$0		\$0		\$0		\$0	\$0
A4	Identification of Alternatives		\$0		\$0		\$0		\$0		\$0	8	\$32		\$0		\$0	\$32
A5	Public/Agency Coordination Meeting	250	\$375	20	\$400	1	\$1,000		\$0	60	\$22		\$0	1	\$0		\$0	\$1,797
	Subtotal Part A	250	\$375	20	\$400	1	\$1,000	8	\$0	120	\$44	8	\$32	0	\$0	1	\$4,300	\$4,151
<b>Part B: Preparation of Environmental Assessment</b>																		
B1	Affected Environment																	
B1.1	Study Area Definition, Base Map		\$0		\$0		\$0		\$0		\$0	12	\$48		\$0		\$0	\$48
B1.2	Description of the Affected Environment		\$0		\$0		\$0	1	\$500		\$0	10	\$40		\$0		\$0	\$540
	Subtotal Task B1	0	\$0	0	\$0	0	\$0	1	\$500	0	\$0	22	\$88	0	\$0	0	\$0	\$508
B2	Environmental Consequences																	
B2.1	Wetlands		\$0		\$0		\$0		\$0		\$0	12	\$48		\$0		\$0	\$48
B2.2	Biological Communities		\$0		\$0		\$0		\$0		\$0	6	\$24		\$0		\$0	\$24
B2.3	Essential Fish Habitat Assessment		\$0		\$0		\$0		\$0		\$0	2	\$8		\$0		\$0	\$8
B2.4	Endangered & Threatened Species		\$0		\$0		\$0		\$0		\$0	5	\$20		\$0		\$0	\$20
B2.5	Water Quality		\$0		\$0		\$0		\$0		\$0	10	\$40		\$0		\$0	\$40
B2.6	Floodplains		\$0		\$0		\$0		\$0		\$0	2	\$8		\$0		\$0	\$8
B2.7	Hazardous Materials		\$0		\$0		\$0		\$0		\$0	1	\$4		\$0		\$0	\$4
B2.8	Historic/Archaeological Resources		\$0		\$0		\$0		\$0		\$0	10	\$40		\$0		\$0	\$40
B2.9	DOT Section 303(c) Resources		\$0		\$0		\$0		\$0		\$0	1	\$4		\$0		\$0	\$4
B2.10	Noise		\$0		\$0		\$0		\$0		\$0		\$0		\$0		\$0	\$0
B2.11	Compatible Land Use		\$0		\$0		\$0		\$0		\$0		\$0		\$0		\$0	\$0
B2.12	Social Impacts		\$0		\$0		\$0		\$0		\$0		\$0		\$0		\$0	\$0
B2.13	Induced Socioeconomic Impacts		\$0		\$0		\$0		\$0		\$0		\$0		\$0		\$0	\$0
B2.14	Air Quality		\$0		\$0		\$0		\$0		\$0		\$0		\$0		\$0	\$0
B2.15	Coastal Zone Management/Coastal Barriers		\$0		\$0		\$0		\$0		\$0		\$0		\$0		\$0	\$0
B2.16	Wild & Scenic Rivers		\$0		\$0		\$0		\$0		\$0		\$0		\$0		\$0	\$0
B2.17	Farmland		\$0		\$0		\$0		\$0		\$0		\$0		\$0		\$0	\$0
B2.18	Energy Supply & Natural Resources		\$0		\$0		\$0		\$0		\$0		\$0		\$0		\$0	\$0
B2.19	Light Emissions		\$0		\$0		\$0		\$0		\$0		\$0		\$0		\$0	\$0
B2.20	Solid Waste Impacts		\$0		\$0		\$0		\$0		\$0		\$0		\$0		\$0	\$0
B2.21	Construction Impacts		\$0		\$0		\$0		\$0		\$0		\$0		\$0		\$0	\$0
B2.22	Cumulative Impacts/Other Considerations		\$0		\$0		\$0		\$0		\$0	5	\$20		\$0		\$0	\$20
	Subtotal Task B2	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0	2	\$8	0	\$0	0	\$0	\$8
B3	Draft EA Report Preparation																	
B3.1	Preliminary Draft EA		\$0		\$0		\$0		\$0		\$0		\$0		\$0		\$0	\$0
B3.2	Draft EA Preparation		\$0		\$0		\$0		\$0		\$0		\$0		\$0		\$0	\$0
	Subtotal Task B3	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0	\$0
B4	Public Involvement																	
B4.1	Meeting List		\$0		\$0		\$0		\$0		\$0		\$0		\$0		\$0	\$0

**Key West International Airport  
EA - RW 9/27 SAFETY AREAS  
Project Cost Estimate: URS, Inc.**

Date: May 15, 2004

Task	Description	HANDS-ON		PRESENTATION BOOKS		COUNT REPORTING		HAZMAT DATA SEARCH		POSTAGE		Plans (24" x 36")		ADVERTISEMENTS		OTHER		TOTAL COST
		Unit Cost \$1.00		Unit Cost \$20		Unit Cost \$1,000		Unit Cost \$500		Unit Cost \$0.37		Unit Cost \$4		Unit Cost \$750		Unit Cost \$0		
		Units	Cost	Units	Cost	Units	Cost	Units	Cost	Units	Cost	Units	Cost	Units	Cost	Units	Cost	
B4.2	Public Information Meeting	200	\$175	20	\$400	2	\$2,000	0	\$0	80	\$30	0	\$0	0	\$0	0	\$0	\$2,805
B4.3	Public Hearing	300	\$450	20	\$400	2	\$2,000	0	\$0	80	\$30	0	\$0	0	\$0	0	\$0	\$2,880
	Subtotal Task B4	500	\$625	40	\$800	4	\$4,000	0	\$0	160	\$50	0	\$0	0	\$0	0	\$0	\$6,884
B5	Draft EA Comment Analysis																	
	Draft EA Comment Analysis		\$0		\$0		\$0		\$0		\$0		\$0		\$0		\$0	\$0
	Subtotal Task B5	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0	\$0
B6	Final EA Report Preparation																	
B6.1	Preliminary Final EA Preparation		\$0		\$0		\$0		\$0		\$0		\$0		\$0		\$0	\$0
B6.2	Final EA Preparation		\$0		\$0		\$0		\$0		\$0		\$0		\$0		\$0	\$0
	Subtotal Task B6		\$0	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0	\$0
	Subtotal Part B	500	\$625	40	\$800	4	\$4,000	0	\$0	160	\$50	0	\$0	0	\$0	0	\$0	\$4,884
	Part C: Environmental Permitting																	
C1	Data Collection and Assessment																	
	Wetlands Field Investigation and Jurisdictional Determination		\$0		\$0		\$0		\$0		\$0	20	\$80		\$0		\$0	\$80
C1.1			\$0		\$0		\$0		\$0		\$0	20	\$80		\$0		\$0	\$80
C1.2	Wetland Jurisdictional Report		\$0		\$0		\$0		\$0		\$0	20	\$80		\$0		\$0	\$80
C1.3	Biotic Community Assessments		\$0		\$0		\$0		\$0		\$0	5	\$20		\$0		\$0	\$20
C1.4	Essential Fish Habitat Assessment		\$0		\$0		\$0		\$0		\$0	5	\$20		\$0		\$0	\$20
C1.5	Protected Species Assessment		\$0		\$0		\$0		\$0		\$0	5	\$20		\$0		\$0	\$20
	Subtotal Task C1	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0	55	\$220	0	\$0	0	\$0	\$220
C2	RSA Design Services																	
C2.1	Engineering Support for Alternatives Analysis		\$0		\$0		\$0		\$0		\$0		\$0		\$0		\$0	\$0
C2.2	Conceptual Design of RSA Alternatives		\$0		\$0		\$0		\$0		\$0		\$0		\$0		\$0	\$0
C2.3	Preliminary Design of Preferred RSA Alternative		\$0		\$0		\$0		\$0		\$0		\$0		\$0		\$0	\$0
C2.4	Engineering Support for Mitigation Design		\$0		\$0		\$0		\$0		\$0		\$0		\$0		\$0	\$0
	Subtotal Task C2	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0	\$0
C3	Drainage Design																	
C3.1	Data Collection and Review		\$0		\$0		\$0		\$0		\$0		\$0		\$0		\$0	\$0
C3.2	Drainage Calculations		\$0		\$0		\$0		\$0		\$0		\$0		\$0		\$0	\$0
C3.3	Drainage Report		\$0		\$0		\$0		\$0		\$0		\$0		\$0		\$0	\$0
C3.4	Drainage Design Plans		\$0		\$0		\$0		\$0		\$0		\$0		\$0		\$0	\$0
	Subtotal Task C3	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0	\$0
C4	Permit Applications and Mitigations Plans																	
	Preparation of Joint Environmental Resource / 404 Permit Application		\$0		\$0		\$0		\$0		\$0	20	\$80		\$0		\$0	\$80
C4.1			\$0		\$0		\$0		\$0		\$0		\$0		\$0		\$0	\$0
C4.2	Develop Preliminary Mitigation Plan		\$0		\$0		\$0		\$0		\$0		\$0		\$0		\$0	\$0
C4.3	Mitigation Construction Plans		\$0		\$0		\$0		\$0		\$0	40	\$160		\$0		\$0	\$160
	Subtotal Task C4	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0	60	\$240	0	\$0	0	\$0	\$240
	Subtotal Part C	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0	115	\$460	0	\$0	0	\$0	\$460
	Part D: Meetings and Coordination																	
D1	Project Team Meetings, Presentations, and Coordination																	
	Project Team Meetings		\$0		\$0		\$0		\$0		\$0		\$0		\$0		\$0	\$0
	Subtotal Task D1	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0	\$0

**Key West International Airport  
EA - RW 9/27 SAFETY AREAS  
Project Cost Estimate: URS, Inc.**

Date: May 15, 2004

Task	Description	HANDOUTS		PRESENTATION BOARDS		COURT REPORTERS		HAZMAT DATA SEARCH		POSTAGE		Plots (24" x 36")		ADVERTISEMENTS		OTHER		OTHER TOTAL COST
		Unit Cost	\$1.00	Unit Cost	\$20	Unit Cost	\$1,000	Unit Cost	\$500	Unit Cost	\$0.37	Unit Cost	\$4	Unit Cost	\$750	Unit Cost	\$0	
		Units	Cost	Units	Cost	Units	Cost	Units	Cost	Units	Cost	Units	Cost	Units	Cost	Units	Cost	
D2	Resource Agency Meetings, Presentations, and Coordination																	
	Resource Agency Meetings		\$0	20	\$400		\$0		\$0		\$0	30	\$120		\$0		\$0	\$520
	Subtotal Task D2	0	\$0	20	\$400	0	\$0	0	\$0	0	\$0	30	\$120	0	\$0	0	\$0	\$520
	Subtotal Part D	0	\$0	20	\$400	0	\$0	0	\$0	0	\$0	30	\$120	0	\$0	0	\$0	\$520
	Part E: Project Management																	
E1	Project Management																	
	Project Management		\$0		\$0		\$0		\$0	25	\$9		\$0		\$0		\$0	\$9
	Subtotal Task E1	0	\$0	0	\$0	0	\$0	0	\$0	25	\$9	0	\$0	0	\$0	0	\$0	\$9
E2	Project Management Plan and Quality Assurance Plan																	
	Project Management/QA Plan		\$0		\$0		\$0		\$0		\$0		\$0		\$0		\$0	\$0
	Subtotal Task E2	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0	\$0
E3	Progress Reporting																	
	Progress Reports		\$0		\$0		\$0		\$0		\$0		\$0		\$0		\$0	\$0
	Subtotal Task E3	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0	\$0
	Subtotal Part E	0	\$0	0	\$0	0	\$0	0	\$0	25	\$9	0	\$0	0	\$0	0	\$0	\$9
	Project Subtotal (Base EA Fee)	800	\$1,200	80	\$1,600	5	\$5,000	1	\$500	225	\$113	231	\$924	0	\$0	1	\$4,300	\$11,737
	Part F: Optional Tasks																	
F1	Formal Section 106 Coordination for Historical Resource Impact																	
	Conduct 106 Coordination/ Prepare MOA		\$0	4	\$80		\$0		\$0	20	\$7		\$0		\$0		\$0	\$87
	Subtotal Task F1	0	\$0	4	\$80	0	\$0	0	\$0	20	\$7	0	\$0	0	\$0	0	\$0	\$87
F2	Biological Assessment and Formal Section 7 Consultation																	
F2.1	Protected Species Surveys		\$0		\$0		\$0		\$0		\$0	24	\$96		\$0		\$0	\$96
F2.2	Assessment of Potential Impacts to Protected Species		\$0		\$0		\$0		\$0		\$0	24	\$96		\$0		\$0	\$96
F2.3	Development of Conservation Measures		\$0		\$0		\$0		\$0		\$0		\$0		\$0		\$0	\$0
F2.4	Biological Assessment Development		\$0		\$0		\$0		\$0		\$0	48	\$192		\$0		\$0	\$192
F2.5	Formal Section 7 Consultation		\$0		\$0		\$0		\$0		\$0	48	\$192		\$0		\$0	\$192
	Subtotal Task F2	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0	144	\$576	0	\$0	0	\$0	\$576
	Optional Tasks Subtotal (Part F)	0	\$0	4	\$80	0	\$0	0	\$0	20	\$7	144	\$576	0	\$0	0	\$0	\$663
	Project Total	800	\$1,200	84	\$1,680	5	\$5,000	1	\$500	245	\$120	375	\$1,500	0	\$0	1	\$4,300	\$14,400





# **MONTGOMERY**

CONSULTING GROUP

*Consultants to the Aviation Industry*

May 25, 2004  
04-3006

Ms. Bevette Moore, Airport Business Office  
County of Monroe, Florida  
Key West International Airport  
Key West, Florida 33040  
Tel: 305-295-5195 Fax: 305-292-3578 # of pages faxed: 13

Reference: **Independent Fee Estimate**  
**Key West International Airport**  
**Environmental Assessment & Environmental Permitting for the**  
**Development of Runway Safety Areas for Runway 9/27**

Dear Ms. Moore:


We have performed an independent fee estimate for professional services associated with the above referenced project at Key West International Airport. The independent estimate is based on the scope of work narrative and pro-forma fee proposal format provided by your consultant.

We have submitted a detailed breakdown of the labor-hour estimates, travel, production and other out-of-pocket expenses for your review. Based on the estimates prepared, our independent estimate of the professional services fees and out-of-pocket expenses for the on the base scope of services is \$776,523 and for the optional task another \$134,241, for a total budget (including the optional tasks) of \$910,765.

Our analysis provides one approach to completing the scope of work for the project. Your consultant's hourly rates may vary based on level of expertise and associated salaries for each labor category. We would recommend that you not compare fees for each subtask but compare the overall fee calculated for the project. Should our independent estimate be substantially different from your consultants (greater/lesser than 10%), we will need to ascertain additional details of the project.

Please feel free to contact me at (407) 539-7030, extension 13 at your convenience to discuss this independent estimate. We have enjoyed this opportunity to provide services to Monroe County.

Yours very truly,

  
Monty Gettys  
President

Enclosures: Independent Estimate (12 pages)

157 E. New England Avenue, Suite 340  
Winter Park, Florida 32789 USA

Tel 407-539-7030  
Fax 407-539-7035  
www.mcgi-us.com

**Key West International Airport  
EA & Permitting - RW 9/27 SAFETY AREAS  
Independent Cost Estimate**

Date: May 25, 2004

Task	Description	Prelim		Project Manager		Sr Planning		Proj Planning		Jr Planning		Technician		Admin/VP		Project Total Labor		Project Total Expenses	Project Grand Total
		Hours	Cost	Hours	Cost	Hours	Cost	Hours	Cost	Hours	Cost	Hours	Cost	Hours	Cost	Hours	Cost		
Part A: Project Definition and Identification of Alternatives																			
A1	Early Notification	8	\$1,200	16	\$1,760	40	\$6,080	16	\$1,800	4	\$300	8	\$520	8	\$400	100	\$10,780	\$136	\$10,916
A2	EA Introduction	8	\$1,200	16	\$1,760	24	\$3,600	8	\$800	4	\$300	8	\$520	4	\$200	72	\$7,780	\$4,418	\$12,198
A3	Definition of Purpose & Need	8	\$1,200	40	\$4,400	48	\$6,800	4	\$400	4	\$300	8	\$520	4	\$200	108	\$12,620	\$184	\$12,804
A4	Identification of Alternatives	8	\$1,200	40	\$4,400	48	\$6,800	24	\$2,400	24	\$1,800	40	\$2,600	4	\$200	180	\$17,800	\$318	\$17,918
A5	Public/Agency Coordination Meeting	8	\$1,200	16	\$1,760	16	\$2,400	8	\$800	16	\$1,200	8	\$520	8	\$400	80	\$7,880	\$5,904	\$13,784
Subtotal Part A		40	\$6,080	136	\$14,880	160	\$26,080	60	\$6,800	52	\$3,900	72	\$4,680	28	\$1,400	440	\$48,960	\$18,960	\$67,920
Part B: Preparation of EA																			
B1 Affected Environment																			
B1.1	Study Area Definition, Base Map	1	\$150	4	\$440	2	\$280	8	\$600	4	\$300	24	\$1,560	0	\$0	43	\$3,560	\$842	\$4,442
B1.2	Description of the Affected Environment	1	\$150	2	\$220	4	\$600	16	\$1,800	16	\$1,200	24	\$1,560	4	\$200	67	\$5,430	\$2,149	\$7,579
Subtotal Task B1		2	\$300	6	\$660	6	\$780	24	\$2,400	20	\$1,500	48	\$3,120	4	\$200	110	\$8,990	\$3,891	\$12,881
B2 Environmental Consequences																			
B2.1	Wetlands	1	\$150	2	\$220	180	\$20,000	80	\$8,000	0	\$0	4	\$260	1	\$50	266	\$28,680	\$6,124	\$34,804
B2.2	Biotic Communities	1	\$150	2	\$220	24	\$3,000	8	\$800	16	\$1,200	4	\$260	1	\$50	56	\$5,680	\$830	\$6,510
B2.3	Essential Fish Habitat Assessment	1	\$150	2	\$220	24	\$3,000	8	\$800	16	\$1,200	4	\$260	1	\$50	56	\$5,680	\$20	\$5,700
B2.4	Endangered & Threatened Species	1	\$150	2	\$220	24	\$3,000	8	\$800	8	\$600	4	\$260	1	\$50	48	\$5,080	\$86	\$5,166
B2.5	Water Quality	1	\$150	2	\$220	24	\$3,000	8	\$800	16	\$1,200	4	\$260	1	\$50	56	\$5,680	\$523	\$6,803
B2.6	Fluvial/Channel	0	\$0	0.5	\$55	8	\$1,600	4	\$400	0	\$0	4	\$260	1	\$50	18	\$1,785	\$13	\$1,778
B2.7	Hazardous Materials	0	\$0	2	\$220	8	\$1,000	4	\$400	8	\$600	4	\$260	1	\$50	27	\$2,530	\$547	\$3,877
B2.8	Historic/Archaeological Resources	0	\$0	2	\$220	40	\$6,080	24	\$2,400	8	\$800	4	\$260	1	\$50	79	\$8,530	\$1,792	\$10,322
B2.9	DOT Section 702(c) Resources	1	\$150	2	\$220	4	\$600	4	\$400	4	\$300	4	\$260	1	\$50	20	\$1,880	\$6	\$1,886
B2.10	New Impacts	1	\$150	8	\$880	16	\$2,400	8	\$800	0	\$0	4	\$260	1	\$50	36	\$4,140	\$5	\$4,145
B2.11	Compatible Land Use	1	\$150	4	\$440	8	\$1,000	2	\$200	0	\$0	4	\$260	1	\$50	20	\$2,100	\$2	\$2,102
B2.12	Soil Impacts	1	\$150	4	\$440	8	\$1,000	4	\$400	8	\$600	4	\$260	1	\$50	30	\$2,900	\$1	\$2,901
B2.13	Induced Socioeconomic Impacts	1	\$150	4	\$440	8	\$1,000	8	\$800	4	\$300	4	\$260	1	\$50	30	\$3,000	\$1	\$3,001
B2.14	Air Quality	1	\$150	8	\$880	24	\$3,000	8	\$800	4	\$300	4	\$260	1	\$50	30	\$3,440	\$34	\$3,474
B2.15	Coastal Zone Management/Coastal Barriers	0	\$0	0.5	\$55	2	\$250	4	\$400	4	\$300	4	\$260	1	\$50	16	\$1,315	\$7	\$1,322
B2.16	Wild & Scenic Rivers	0	\$0	0.5	\$55	2	\$250	0	\$0	1	\$75	0	\$0	1	\$50	5	\$430	\$0	\$430
B2.17	Farmstead	0	\$0	0.5	\$55	2	\$250	0	\$0	1	\$75	0	\$0	1	\$50	5	\$430	\$0	\$430
B2.18	Energy Supply & Natural Resources	0	\$0	0.5	\$55	2	\$250	0	\$0	1	\$75	2	\$130	1	\$50	7	\$580	\$1	\$581
B2.19	Light Emissions	0	\$0	0.5	\$55	2	\$250	0	\$0	1	\$75	2	\$130	1	\$50	7	\$560	\$1	\$561
B2.20	Solid Waste Impacts	0	\$0	0.5	\$55	2	\$250	0	\$0	1	\$75	0	\$0	1	\$50	5	\$430	\$1	\$431
B2.21	Construction Impacts	0	\$0	0.5	\$55	2	\$250	0	\$0	2	\$150	0	\$0	1	\$50	6	\$505	\$22	\$527
B2.22	Cumulative Impacts/Other Considerations	1	\$150	8	\$880	8	\$1,000	2	\$200	2	\$150	2	\$130	1	\$50	24	\$2,560	\$10	\$2,570
Subtotal Task B2		12	\$1,800	88	\$9,160	482	\$58,280	164	\$16,400	185	\$7,875	68	\$4,280	22	\$1,100	847	\$88,875	\$18,425	\$108,298

**Key West International Airport  
EA & Permitting - RW 9/27 SAFETY AREAS  
Independent Cost Estimate**

Date: May 26, 2021

Task	Description	Preliminary		Project Manager		Sr Planning/Reg		Final Preparation		Jr Planning/Reg		Verification		Administrative		Project		Project Total Expense	Project Grand Total
		Hours	Cost	Hours	Cost	Hours	Cost	Hours	Cost	Hours	Cost	Hours	Cost	Hours	Cost	Hours	Cost		
		Rate	Rate	Rate	Rate	Rate	Rate	Rate	Rate	Rate	Rate	Rate	Rate	Rate	Rate	Rate	Rate		
B0	Draft EA Report Preparation																		
B0.1	Preliminary Draft EA	40	\$6,000	120	\$18,000	120	\$18,000	80	\$12,000	80	\$12,000	24	\$3,600	24	\$3,600	400	\$60,000	\$1,310	\$32,270
B0.2	Draft EA Preparation	24	\$3,600	80	\$12,000	40	\$6,000	40	\$6,000	40	\$6,000	24	\$3,600	40	\$6,000	200	\$30,000	\$5,221	\$33,181
	Subtotal Task B0	64	\$9,600	200	\$30,000	160	\$24,000	120	\$18,000	120	\$18,000	48	\$7,200	64	\$9,600	776	\$117,600	\$6,531	\$98,489
B4	Public Involvement																		
B4.1	Meeting List	0	\$0	0	\$0	16	\$2,400	0	\$0	24	\$3,600	0	\$0	16	\$2,400	64	\$9,600	\$2	\$5,482
B4.2	Public Information Meeting	16	\$2,400	40	\$6,000	40	\$6,000	40	\$6,000	40	\$6,000	24	\$3,600	8	\$1,200	208	\$31,200	\$8,861	\$27,621
B4.3	Public Hearing	16	\$2,400	40	\$6,000	16	\$2,400	16	\$2,400	16	\$2,400	0	\$0	8	\$1,200	112	\$16,800	\$6,936	\$18,936
	Subtotal Task B4	32	\$4,800	80	\$12,000	72	\$10,800	56	\$8,400	60	\$9,000	24	\$3,600	24	\$3,600	384	\$57,600	\$15,799	\$52,899
B6	Draft EA Comment Analysis																		
	Draft EA Comment Analysis	40	\$6,000	120	\$18,000	80	\$12,000	80	\$12,000	80	\$12,000	40	\$6,000	40	\$6,000	400	\$60,000	\$16	\$47,816
	Subtotal Task B6	40	\$6,000	120	\$18,000	80	\$12,000	80	\$12,000	80	\$12,000	40	\$6,000	40	\$6,000	400	\$60,000	\$16	\$47,816
B8	Final EA Report Preparation																		
B8.1	Preliminary Final EA Preparation	40	\$6,000	120	\$18,000	80	\$12,000	80	\$12,000	80	\$12,000	40	\$6,000	40	\$6,000	400	\$60,000	\$1,470	\$49,270
B8.2	Final EA Preparation	24	\$3,600	80	\$12,000	40	\$6,000	40	\$6,000	40	\$6,000	24	\$3,600	40	\$6,000	200	\$30,000	\$7,819	\$29,379
	Subtotal Task B8	64	\$9,600	200	\$30,000	120	\$18,000	120	\$18,000	120	\$18,000	64	\$9,600	80	\$12,000	760	\$114,000	\$9,289	\$123,589
	Subtotal Part B	214	\$32,160	676	\$102,000	360	\$54,000	364	\$54,600	325	\$48,750	216	\$32,400	242	\$36,240	2086	\$310,800	\$36,749	\$376,273
Part C: Environmental Permitting																			
C1	Data Collection and Assessment																		
C1.1	Wetlands Field Investigation and Jurisdictional Determination	0	\$0	4	\$600	80	\$12,000	80	\$12,000	0	\$0	0	\$0	8	\$1,200	172	\$26,400	\$6,075	\$24,915
C1.2	Wetland Jurisdictional Report	1	\$150	2	\$300	24	\$3,600	24	\$3,600	0	\$0	8	\$1,200	8	\$1,200	67	\$10,080	\$85	\$6,775
C1.3	Biological Community Assessments	1	\$150	2	\$300	16	\$2,400	16	\$2,400	0	\$0	8	\$1,200	8	\$1,200	51	\$7,650	\$85	\$4,975
C1.4	Essential Fish Habitat Assessment	1	\$150	1	\$150	16	\$2,400	16	\$2,400	0	\$0	4	\$600	4	\$600	42	\$6,300	\$85	\$4,495
C1.5	Protected Species Assessment	1	\$150	1	\$150	16	\$2,400	16	\$2,400	0	\$0	4	\$600	4	\$600	42	\$6,300	\$77	\$4,397
	Subtotal Task C1	4	\$600	10	\$1,500	132	\$19,800	132	\$19,800	0	\$0	24	\$3,600	32	\$4,800	374	\$56,640	\$8,405	\$48,465
C2	RSA Design Services																		
C2.1	Engineering Support for Alternatives Analysis	1	\$150	4	\$600	8	\$1,200	24	\$3,600	24	\$3,600	8	\$1,200	0	\$0	69	\$10,350	\$426	\$6,736
C2.2	Conceptual Design of RSA Alternatives	1	\$150	8	\$1,200	24	\$3,600	24	\$3,600	24	\$3,600	40	\$6,000	0	\$0	121	\$18,150	\$423	\$11,253
C2.3	Preliminary Design of Preferred RSA Alternative	1	\$150	4	\$600	40	\$6,000	40	\$6,000	24	\$3,600	40	\$6,000	4	\$600	153	\$22,950	\$473	\$14,613
C2.4	Engineering Support for Mitigation Design		\$0		\$0		\$0		\$0		\$0		\$0		\$0	0	\$0	\$473	\$473
	Subtotal Task C2	3	\$450	16	\$2,400	72	\$10,800	88	\$13,200	72	\$10,800	88	\$13,200	4	\$600	343	\$51,900	\$1,894	\$53,894
C3	Drainage Design																		
C3.1	Data Collection and Review	1	\$150	4	\$600	4	\$600	8	\$1,200	4	\$600	0	\$0	0	\$0	21	\$3,150	\$2,367	\$4,557
C3.2	Drainage Calculations	1	\$150	2	\$300	24	\$3,600	24	\$3,600	24	\$3,600	8	\$1,200	0	\$0	63	\$9,450	\$824	\$8,914
C3.3	Drainage Report	1	\$150	2	\$300	16	\$2,400	16	\$2,400	4	\$600	16	\$2,400	0	\$0	55	\$8,250	\$820	\$8,130
C3.4	Drainage Design Plans	1	\$150	2	\$300	24	\$3,600	24	\$3,600	24	\$3,600	24	\$3,600	0	\$0	111	\$16,650	\$480	\$17,130
	Subtotal Task C3	4	\$600	18	\$2,700	68	\$10,200	72	\$10,800	56	\$8,400	48	\$7,200	0	\$0	279	\$41,850	\$4,891	\$46,741

**Key West International Airport  
EA & Permitting - RW 9/27 SAFETY AREAS  
Independent Cost Estimate**

Date: May 25, 2004

Task	Description	Estimated		Project Manager		Sr Planning		Proj Planning		Jr Planning		Technician		Administrative		Project Total Labor		Project Total Expense	Project Grand Total																	
		Qty	Cost	Qty	Cost	Qty	Cost	Qty	Cost	Qty	Cost	Qty	Cost	Qty	Cost	Hours	Cost																			
		Hours	Cost	Hours	Cost	Hours	Cost	Hours	Cost	Hours	Cost	Hours	Cost	Hours	Cost	Hours	Cost																			
C4 Permit Applications and Mitigation Plans																																				
Preparation of Joint Environmental Resource / 404 Permit Application																																				
C4.1		4	\$600	24	\$2,640	24	\$3,800	40	\$4,000	80	\$6,000	16	\$1,040	16	\$800	204	\$18,080	\$714	\$18,794																	
C4.2	Develop Preliminary Mitigation Plan	2	\$300	16	\$1,760	24	\$3,000	24	\$2,400	24	\$1,800	24	\$1,560	0	\$0	114	\$10,620	\$436	\$11,276																	
C4.3	Mitigation Construction Plans	2	\$300	16	\$1,760	40	\$5,000	40	\$4,000	80	\$6,000	80	\$5,200	0	\$0	256	\$22,260	\$740	\$23,000																	
	Subtotal Task C4	8	\$1,500	66	\$6,160	88	\$11,800	104	\$10,400	184	\$13,800	120	\$7,800	16	\$800	576	\$51,160	\$1,890	\$53,050																	
	Subtotal Part C	16	\$3,000	132	\$10,120	132	\$16,800	116	\$14,800	212	\$32,600	200	\$16,200	32	\$2,600	1063	\$147,770	\$14,887	\$163,277																	
Part D: Meetings and Coordination																																				
B1 Project Team Meetings, Presentations, and Coordination																																				
Project Team Meetings, Presentations, and Coordination (12)																																				
		96	\$8,400	96	\$10,560	96	\$12,800	40	\$4,000	24	\$1,800	16	\$1,040	24	\$1,200	352	\$29,000	\$20,730	\$50,730																	
	Subtotal Task D1	96	\$8,400	96	\$10,560	96	\$12,800	40	\$4,000	24	\$1,800	16	\$1,040	24	\$1,200	352	\$29,000	\$20,730	\$50,730																	
B2 Resource Agency Meetings Presentations, and Coordination																																				
Resource Agency Meetings (7)																																				
		40	\$6,000	56	\$8,160	56	\$7,000	16	\$1,600	24	\$1,800	16	\$1,040	24	\$1,200	232	\$24,800	\$10,784	\$35,584																	
	Subtotal Task D2	40	\$6,000	56	\$8,160	56	\$7,000	16	\$1,600	24	\$1,800	16	\$1,040	24	\$1,200	232	\$24,800	\$10,784	\$35,584																	
	Subtotal Part D	96	\$14,400	152	\$16,720	152	\$16,800	56	\$5,600	48	\$3,600	32	\$2,080	48	\$2,400	584	\$63,600	\$31,534	\$95,134																	
Part E: Project Management																																				
B1 Project Management																																				
Project Management																																				
		80	\$8,000	200	\$22,000	40	\$5,000	0	\$0	0	\$0	0	\$0	40	\$2,000	340	\$36,000	\$3,790	\$41,790																	
			\$0		\$0		\$0		\$0		\$0		\$0		\$0	0	\$0	\$5	\$5																	
	Subtotal Task E1	80	\$8,000	200	\$22,000	40	\$5,000	0	\$0	0	\$0	0	\$0	40	\$2,000	340	\$36,000	\$3,795	\$41,795																	
E2 Project Management Plan and Quality Assurance Plan																																				
Project Management/QA Plan																																				
		24	\$3,600	40	\$4,400	24	\$3,600	0	\$0	0	\$0	0	\$0	16	\$800	104	\$11,800	\$297	\$12,097																	
			\$0		\$0		\$0		\$0		\$0		\$0		\$0	0	\$0	\$0	\$0																	
	Subtotal Task E2	24	\$3,600	40	\$4,400	24	\$3,600	0	\$0	0	\$0	0	\$0	16	\$800	104	\$11,800	\$297	\$12,097																	
E3 Progress Reporting																																				
Progress Reports																																				
		40	\$6,000	128	\$13,280	0	\$0	0	\$0	0	\$0	0	\$0	40	\$2,000	200	\$21,200	\$966	\$21,766																	
			\$0,000	128	\$13,280	0	\$0	0	\$0	0	\$0	0	\$0	40	\$2,000	200	\$21,200	\$966	\$21,766																	
	Subtotal Task E3	40	\$6,000	128	\$13,280	0	\$0	0	\$0	0	\$0	0	\$0	40	\$2,000	200	\$21,200	\$966	\$21,766																	
	Subtotal Part E	124	\$14,600	268	\$33,680	64	\$8,600	0	\$0	0	\$0	0	\$0	80	\$4,000	644	\$77,800	\$4,916	\$77,816																	
Project Subtotal (Base EA Fee)																			493	\$73,000	1482	\$164,220	1896	\$281,000	1116	\$111,000	637	\$76,275	874	\$43,910	468	\$23,300	6006	\$678,184	\$68,368	\$776,523
Part F: Optional Tasks																																				
F1 Formal Section 106 Coordination for Historical Resource Impact																																				
Conduct 106 Coordination/ Prepare MOA																																				
		1	\$100	40	\$4,400	40	\$5,000	24	\$2,400	0	\$0	4	\$260	4	\$200	113	\$12,410	\$4,072	\$16,482																	
	Subtotal Task F1	1	\$100	40	\$4,400	40	\$5,000	24	\$2,400	0	\$0	4	\$260	4	\$200	113	\$12,410	\$4,072	\$16,482																	
F2 Biological Assessment and Formal Section 7 Consultation																																				
F2.1 Protected Species Surveys																																				
		2	\$300	24	\$2,640	0	\$0	480	\$48,000	0	\$0	0	\$0	40	\$2,000	548	\$58,940	\$20,480	\$73,400																	
F2.2 Assessment of Potential Impacts to Protected Species																																				
		1	\$180	24	\$2,640	0	\$0	40	\$4,000	0	\$0	8	\$520	24	\$1,200	97	\$8,510	\$240	\$8,750																	
F2.3 Development of Conservation Measures																																				
		1	\$180	24	\$2,640	0	\$0	40	\$4,000	0	\$0	8	\$520	24	\$1,200	97	\$8,510	\$240	\$8,750																	
F2.4 Biological Assessment Development																																				
		1	\$180	24	\$2,640	0	\$0	80	\$8,000	0	\$0	8	\$520	8	\$400	101	\$9,710	\$240	\$9,950																	
F2.5 Formal Section 7 Consultation																																				
		8	\$1,200	40	\$4,400	0	\$0	40	\$4,000	0	\$0	0	\$0	16	\$800	104	\$10,400	\$4,510	\$16,910																	
	Subtotal Task F2	13	\$1,860	128	\$14,680	0	\$0	560	\$56,000	0	\$0	24	\$1,280	112	\$5,600	346	\$60,090	\$27,000	\$117,790																	
	Optional Tasks Subtotal (Part F)	14	\$2,160	172	\$17,220	40	\$5,000	604	\$60,400	0	\$0	28	\$1,480	116	\$5,800	1059	\$108,400	\$31,761	\$139,241																	
URS Project Total																			607	\$75,160	1654	\$173,900	1936	\$286,000	1144	\$116,000	637	\$76,275	792	\$45,390	482	\$24,100	7764	\$786,634	\$136,130	\$926,766

**Key West International Airport  
EA & Permitting - RW 9/27 SAFETY AREAS  
Independent Cost Estimate**

Rev: May 25, 2024

Task	Description	Airway		General Use		Hotel		Daily Meals		Parking		Out-of-State Travel		Out-of-State Lodging		Other		TOTAL TOTAL TOTAL	
		Units	Cost	Units	Cost	Units	Cost	Units	Cost	Units	Cost	Units	Cost	Units	Cost	Units	Cost		
		Units	Cost	Units	Cost	Units	Cost	Units	Cost	Units	Cost	Units	Cost	Units	Cost	Units	Cost		
Part A: Project Definition and Identification of Alternatives																			
A1	Early Notification	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0	\$0	
A2	EA Introduction	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0	\$0	
A3	Definition of Purpose & Need	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0	\$0	
A4	Identification of Alternatives	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0	\$0	
A5	Public/Agency Coordination Meeting	6	\$2,400	2	\$100	8	\$720	12	\$600	12	\$144	0	\$0	0	\$0	0	\$0	\$4,814	
	Subtotal Part A	6	\$2,400	2	\$100	8	\$720	12	\$600	12	\$144	0	\$0	0	\$0	0	\$0	\$4,814	
Part B: Preparation of Environmental Assessment																			
B1	Affected Environment																		
B1.1	Study Area Definition, Base Map	1	\$400	2	\$180	1	\$120	2	\$100	2	\$24	0	\$0	0	\$0	0	\$0	\$794	
B1.2	Description of the Affected Environment	2	\$400	2	\$150	2	\$240	4	\$200	4	\$48	0	\$0	0	\$0	0	\$0	\$1,438	
	Subtotal Task B1	3	\$1,200	4	\$330	3	\$360	6	\$300	6	\$72	0	\$0	0	\$0	0	\$0	\$2,232	
B2	Environmental Consequences																		
B2.1	Wetlands	4	\$1,800	10	\$750	20	\$2,400	20	\$1,000	20	\$240	0	\$0	0	\$0	0	\$0	\$5,990	
B2.2	Soils Communities	1	\$400	2	\$180	1	\$120	2	\$100	2	\$24	0	\$0	0	\$0	0	\$0	\$794	
B2.3	Essential Fish Habitat Assessment	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0	\$0	
B2.4	Endangered & Threatened Species	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0	\$0	
B2.5	Water Quality	1	\$400	2	\$150	1	\$120	2	\$100	2	\$24	0	\$0	0	\$0	0	\$0	\$794	
B2.6	Floodplains	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0	\$0	
B2.7	Hazardous Materials	1	\$400	1	\$75	0	\$0	1	\$00	1	\$12	0	\$0	0	\$0	0	\$0	\$537	
B2.8	Historic/Archaeological Resources	2	\$800	2	\$150	4	\$480	4	\$200	4	\$48	0	\$0	0	\$0	0	\$0	\$1,678	
B2.9	DOT Section 303(c) Resources	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0	\$0	
B2.10	Noise	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0	\$0	
B2.11	Competitive Land Use	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0	\$0	
B2.12	Social Impacts	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0	\$0	
B2.13	Induced Socioeconomic Impacts	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0	\$0	
B2.14	Air Quality	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0	\$0	
B2.15	Coastal Zone Management/Coastal Barriers	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0	\$0	
B2.16	Wild & Scenic Rivers	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0	\$0	
B2.17	Farmland	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0	\$0	
B2.18	Energy Supply & Natural Resources	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0	\$0	
B2.19	Light Emissions	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0	\$0	
B2.20	Solid Waste Impacts	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0	\$0	
B2.21	Construction Impacts	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0	\$0	
B2.22	Cumulative Impacts/Other Considerations	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0	\$0	
	Subtotal Task B2	9	\$3,600	17	\$1,275	28	\$3,120	29	\$1,400	29	\$360	0	\$0	0	\$0	0	\$0	\$8,793	

**Key West International Airport  
EA & Permitting - RW 9/27 SAFETY AREAS  
Independent Cost Estimate**

Date: May 26, 2004

Task		Description		Airfare		Special Car		Hotel		Daily Meals		Parking		Outside Travel		Outside Lunch		Unit Cost		TRAVEL TOTAL COST
		Unit Cost		Unit Cost		Unit Cost		Unit Cost		Unit Cost		Unit Cost		Unit Cost		Unit Cost		Unit Cost		
		Units	Cost	Units	Cost	Units	Cost	Units	Cost	Units	Cost	Units	Cost	Units	Cost	Units	Cost	Units	Cost	
B3		Draft EA Report Preparation																		
B3.1		Preliminary Draft EA	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0
B3.2		Draft EA Preparation	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0
		Subtotal Task B3	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0
B4		Public Involvement																		
B4.1		Meeting List	0	\$0	0	\$0		\$0	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0
B4.2		Public Information Meeting	6	\$2,400	2	\$180	0	\$720	12	\$800	12	\$144	0	\$0	0	\$0	0	\$0	0	\$0
B4.3		Public Hearing	6	\$2,400	2	\$180	0	\$720	12	\$800	12	\$144	0	\$0	0	\$0	0	\$0	0	\$0
		Subtotal Task B4	12	\$4,800	4	\$360	12	\$1,440	24	\$1,300	12	\$288	0	\$0	0	\$0	0	\$0	0	\$0
B5		Draft EA Comment Analysis																		
		Draft EA Comment Analysis	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0
		Subtotal Task B5	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0
B6		Final EA Report Preparation																		
B6.1		Preliminary Final EA Preparation	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0
B6.2		Final EA Preparation	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0
		Subtotal Task B6	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0
		Subtotal Part B	24	\$9,800	26	\$1,876	41	\$4,920	36	\$2,900	47	\$736	0	\$0	0	\$0	0	\$0	0	\$0
Part C: Environmental Permitting																				
C1		Data Collection and Assessment																		
		Wetlands Field Investigation and Jurisdictional Determination																		
C1.1			4	\$1,800	10	\$750	20	\$2,400	20	\$1,000	20	\$240	0	\$0	0	\$0	0	\$0	0	\$0
C1.2		Wetland Jurisdictional Report	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0
C1.3		Static Community Assessments	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0
C1.4		Essential Fish Habitat Assessment	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0
C1.5		Protected Species Assessment	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0
		Subtotal Task C1	4	\$1,800	10	\$750	20	\$2,400	20	\$1,000	20	\$240	0	\$0	0	\$0	0	\$0	0	\$0
C2		RSA Design Services																		
C2.1		Engineering Support for Alternatives Analysis	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0
C2.2		Conceptual Design of RSA Alternatives	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0
C2.3		Preliminary Design of Preferred RSA Alternative	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0
C2.4		Engineering Support for Mitigation Design	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0
		Subtotal Task C2	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0
C3		Drainage Design																		
C3.1		Data Collection and Review	2	\$800	2	\$180	2	\$240	4	\$200	4	\$48	0	\$0	0	\$0	0	\$0	0	\$0
C3.2		Drainage Calculations	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0
C3.3		Drainage Report	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0
C3.4		Drainage Design Plans	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0
		Subtotal Task C3	2	\$800	2	\$180	2	\$240	4	\$200	4	\$48	0	\$0	0	\$0	0	\$0	0	\$0
																				\$1,436

**Key West International Airport  
EA & Permitting - RW 9/27 SAFETY AREAS  
Independent Cost Estimate**

Date: May 25, 2004

Task	Description	Airfare		Rental Car		Hotel		Daily Meals		Parking		Out-of-Town Travel		Out-of-Town Lodging		TOTAL	
		Units	Cost	Units	Cost	Units	Cost	Units	Cost	Units	Cost	Units	Cost	Units	Cost	Units	Cost
C4	Permit Applications and Mitigation Plans																
C4.1	Preparation of Joint Environmental Resources / 404 Permit Application	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0
C4.2	Develop Preliminary Mitigation Plan	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0
C4.3	Mitigation Construction Plans	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0
	Subtotal Task C4	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0
	Subtotal Part C	0	\$2,400	12	\$600	22	\$2,400	24	\$1,200	24	\$300	0	\$0	0	\$0	0	\$0
	Part D: Meetings and Coordination																
D1	Project Team Meetings, Presentations, and Coordination																
	Project Team Meetings	30	\$12,000	10	\$750	30	\$3,000	30	\$1,500	30	\$300	0	\$270	0	\$0	0	\$0
	Subtotal Task D1	30	\$12,000	10	\$750	30	\$3,000	30	\$1,500	30	\$300	0	\$270	0	\$0	0	\$0
	Subtotal Part D	30	\$12,000	10	\$750	30	\$3,000	30	\$1,500	30	\$300	0	\$270	0	\$0	0	\$0
D2	Resource Agency Meetings, Presentations, and Coordination																
	Resource Agency Meetings	21	\$4,400	7	\$325	0	\$0	21	\$1,050	7	\$354	0	\$0	0	\$0	0	\$0
	Subtotal Task D2	21	\$4,400	7	\$325	0	\$0	21	\$1,050	7	\$354	0	\$0	0	\$0	0	\$0
	Subtotal Part D	51	\$20,400	17	\$1,075	30	\$3,000	51	\$2,550	37	\$654	0	\$270	0	\$0	0	\$0
	Part E: Project Management																
E1	Project Management																
	Project Management	8	\$2,400	0	\$0	0	\$0	8	\$300	8	\$72	2	\$20	2	\$20	0	\$0
	Subtotal Task E1	8	\$2,400	0	\$0	0	\$0	8	\$300	8	\$72	2	\$20	2	\$20	0	\$0
	Subtotal Part E	8	\$2,400	0	\$0	0	\$0	8	\$300	8	\$72	2	\$20	2	\$20	0	\$0
E2	Project Management Plan and Quality Assurance Plan																
	Project Management/QA Plan	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0
	Subtotal Task E2	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0
E3	Progress Reporting																
	Progress Reports	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0
	Subtotal Task E3	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0
	Subtotal Part E	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0
	Project Subtotal (Base EA Fee)	93	\$37,200	27	\$1,075	60	\$11,000	102	\$7,800	126	\$1,056	2	\$20	2	\$20	0	\$0
	Part F: Optional Tasks																
F1	Formal Section 106 Coordination for Historical Resource Impact																
	Conduct 106 Coordination/ Prepare MOA	0	\$2,400	3	\$225	0	\$0	0	\$300	0	\$72	0	\$0	0	\$0	0	\$0
	Subtotal Task F1	0	\$2,400	3	\$225	0	\$0	0	\$300	0	\$72	0	\$0	0	\$0	0	\$0
F2	Biological Assessment and Formal Section 7 Consultation																
F2.1	Protected Species Surveys	12	\$4,800	0	\$0	0	\$0	0	\$3,000	0	\$720	0	\$0	0	\$0	0	\$0
F2.2	Assessment of Potential Impacts to Protected Species	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0
F2.3	Development of Conservation Measures	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0
F2.4	Biological Assessment Development	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0
F2.5	Formal Section 7 Consultation	10	\$4,000	10	\$750	0	\$0	10	\$500	10	\$120	0	\$0	0	\$0	0	\$0
	Subtotal Task F2	22	\$8,800	10	\$750	0	\$0	10	\$500	10	\$120	0	\$0	0	\$0	0	\$0
	Optional Tasks Subtotal (Part F)	22	\$8,800	10	\$750	0	\$0	10	\$500	10	\$120	0	\$0	0	\$0	0	\$0
	Project Total	115	\$46,000	37	\$1,825	60	\$11,000	112	\$8,300	136	\$1,176	2	\$20	2	\$20	0	\$0

**Key West International Airport  
EA & Permitting - RW 9/27 SAFETY AREAS  
Independent Cost Estimate**

Rev. 04/25/2020

Task	Description	04/25/2020		04/25/2020		04/25/2020		04/25/2020		04/25/2020		04/25/2020		04/25/2020		04/25/2020		04/25/2020		FACILITY COST
		Estimate	Cost	Estimate	Cost	Estimate	Cost	Estimate	Cost	Estimate	Cost	Estimate	Cost	Estimate	Cost	Estimate	Cost			
Part A: Project Definition and Identification of Alternatives																				
A1	Early Notification	240	\$10	0	\$0	0	\$0	00	\$45	0	\$0	0	\$0	2	\$00	0	\$0		\$114	
A2	EA Introduction	100	\$0	20	\$16	0	\$0	0	\$0	30	\$14	30	\$20	2	\$00	0	\$0		\$110	
A3	Definition of Purpose & Need	100	\$12	00	\$34	0	\$0	20	\$21	30	\$14	30	\$20	1	\$75	0	\$0		\$104	
A4	Identification of Alternatives	000	\$00	30	\$17	0	\$0	112	\$04	30	\$14	30	\$20	1	\$75	0	\$0		\$206	
A5	Public/Agency Coordination Meeting	200	\$10	40	\$27	0	\$0	0	\$0	0	\$0	0	\$0	2	\$00	0	\$0		\$03	
Subtotal Part A		1040	\$120	100	\$00	0	\$0	200	\$100	04	\$42	34	\$04	12	\$300	0	\$0		\$705	
Part B: Preparation of Environmental Assessment																				
B1 Affected Environment																				
B1.1	Study Area Definition, Base Map	35	\$2	0	\$0	0	\$0	00	\$30	0	\$0	0	\$0	2	\$00	2	\$10		\$100	
B1.2	Description of the Affected Environment	000	\$40	12	\$7	34	\$0	34	\$10	0	\$0	0	\$0	0	\$0	0	\$0		\$71	
Subtotal Task B1		000	\$42	12	\$7	34	\$0	34	\$10	0	\$0	0	\$0	2	\$00	2	\$10		\$171	
B2 Environmental Consequences																				
B2.1	Wetlands	200	\$16	0	\$0	5	\$1	25	\$10	0	\$0	0	\$0	2	\$00	0	\$0		\$00	
B2.2	Watershed	100	\$0	0	\$0	0	\$0	5	\$4	0	\$0	0	\$0	0	\$0	0	\$0		\$12	
B2.3	Essential Fish Habitat Assessment	100	\$0	0	\$0	0	\$0	5	\$4	0	\$0	0	\$0	0	\$0	0	\$0		\$12	
B2.4	Endangered & Threatened Species	100	\$0	0	\$0	0	\$0	10	\$0	0	\$0	0	\$0	2	\$10	0	\$0		\$00	
B2.5	Water Quality	200	\$30	0	\$0	0	\$0	25	\$10	0	\$0	0	\$0	2	\$10	0	\$0		\$00	
B2.6	Plankton	10	\$1	0	\$0	0	\$0	5	\$4	0	\$0	0	\$0	0	\$0	0	\$0		\$0	
B2.7	Hazardous Materials	25	\$2	0	\$0	0	\$0	5	\$4	0	\$0	0	\$0	0	\$0	0	\$0		\$0	
B2.8	Historic/Archaeological Resources	200	\$10	0	\$0	0	\$0	10	\$0	0	\$0	0	\$0	2	\$00	0	\$0		\$74	
B2.9	DOY Section 303(c) Resources	10	\$1	0	\$0	0	\$0	2	\$2	0	\$0	0	\$0	0	\$0	0	\$0		\$2	
B2.10	Noise	10	\$1	0	\$0	0	\$0	5	\$4	0	\$0	0	\$0	0	\$0	0	\$0		\$0	
B2.11	Compatible Land Use	10	\$1	0	\$0	0	\$0	2	\$2	0	\$0	0	\$0	0	\$0	0	\$0		\$0	
B2.12	Social Impacts	10	\$1	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0		\$1	
B2.13	Induced Socioeconomic Impacts	10	\$1	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0		\$1	
B2.14	Air Quality	100	\$0	0	\$0	2	\$1	0	\$0	0	\$0	0	\$0	1	\$25	0	\$0		\$34	
B2.15	Coastal Zone Management/Coastal Barriers	25	\$2	0	\$0	5	\$1	5	\$4	0	\$0	0	\$0	0	\$0	0	\$0		\$7	
B2.16	WMA & Benthic Rivers	5	\$0	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0		\$0	
B2.17	Fishery	5	\$0	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0		\$0	
B2.18	Energy Supply & Natural Resources	10	\$1	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0		\$1	
B2.19	Light Emissions	10	\$1	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0		\$1	
B2.20	Solid Waste Impacts	15	\$1	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0		\$1	
B2.21	Construction Impacts	25	\$2	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0		\$2	
B2.22	Cumulative Impacts/Other Considerations	25	\$2	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0		\$2	
Subtotal Task B2		1000	\$100	0	\$0	12	\$3	104	\$76	0	\$0	0	\$0	0	\$25	0	\$0		\$400	



**Key West International Airport  
EA & Permitting - RW 9/27 SAFETY AREAS  
Independent Cost Estimate**

Date: May 25, 2011

Task	Description	RW 9/27		Other 9/27		RW 9/27		Other 9/27		Covers		Landfill		Overhead Payment		GPR		PRODUCTION TOTAL COST
		Units	Cost	Units	Cost	Units	Cost	Units	Cost	Units	Cost	Units	Cost	Units	Cost	Units	Cost	
B3	Draft EA Report Preparation																	
B3.1	Preliminary Draft EA	6488	\$612	128	\$77	84	\$16	812	\$384	84	\$32	84	\$84	4	\$108	28	\$125	\$1,210
B3.2	Draft EA Preparation	10888	\$1,528	380	\$228	180	\$48	1628	\$1,140	180	\$85	180	\$180	75	\$1,875	25	\$125	\$5,221
	Subtotal Task B3	35488	\$2,882	808	\$305	264	\$64	2440	\$1,524	264	\$117	264	\$264	79	\$1,983	53	\$350	\$6,530
B4	Public Involvement																	
B4.1	Meeting List	25	\$2	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0	\$2
B4.2	Public Information Meeting	150	\$12	50	\$30	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0	\$42
B4.3	Public Hearing	150	\$12	50	\$30	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0	\$42
	Subtotal Task B4	300	\$26	100	\$60	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0	\$86
B5	Draft EA Comment Analysis																	
	Draft EA Comment Analysis	200	\$18	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0	\$18
	Subtotal Task B5	200	\$18	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0	\$18
B6	Final EA Report Preparation																	
B6.1	Preliminary Final EA Preparation	9088	\$720	144	\$88	144	\$36	876	\$432	84	\$32	84	\$84	4	\$108	0	\$0	\$1,470
B6.2	Final EA Preparation	8888	\$880	136	\$82	136	\$34	844	\$408	80	\$30	80	\$80	4	\$100	5	\$25	\$1,419
	Subtotal Task B6	17988	\$1,400	280	\$169	280	\$70	1720	\$840	164	\$62	164	\$164	8	\$308	5	\$25	\$2,889
	Subtotal Part B	40888	\$3,015	808	\$364	544	\$140	2320	\$1,264	378	\$149	378	\$378	88	\$2,291	57	\$375	\$16,888
	Part C: Environmental Permitting																	
C1	Data Collection and Assessment																	
C1.1	Wetlands Field Investigation and Jurisdictional Determination	288	\$16	20	\$12	5	\$1	5	\$4	2	\$1	2	\$2	1	\$25	1	\$5	\$66
C1.2	Wetland Jurisdictional Report	200	\$16	20	\$12	5	\$1	5	\$4	2	\$1	2	\$2	1	\$25	1	\$5	\$66
C1.3	Shoal Community Assessments	200	\$16	20	\$12	5	\$1	5	\$4	2	\$1	2	\$2	1	\$25	1	\$5	\$66
C1.4	Essential Fish Habitat Assessment	208	\$16	20	\$12	5	\$1	5	\$4	2	\$1	2	\$2	1	\$25	1	\$5	\$68
C1.5	Protected Species Assessment	188	\$8	20	\$12	5	\$1	5	\$4	2	\$1	2	\$2	1	\$25	1	\$5	\$58
	Subtotal Task C1	988	\$72	100	\$60	25	\$6	25	\$40	10	\$5	10	\$10	5	\$125	5	\$25	\$322
C2	RSA Design Services																	
C2.1	Engineering Support for Alternatives Analysis	80	\$6	24	\$14	8	\$2	8	\$6	0	\$0	0	\$0	1	\$25	1	\$5	\$57
C2.2	Conceptual Design of RSA Alternatives	24	\$2	24	\$14	8	\$2	8	\$6	0	\$0	0	\$0	1	\$25	1	\$5	\$54
C2.3	Preliminary Design of Preferred RSA Alternative	24	\$2	24	\$14	8	\$2	8	\$6	0	\$0	0	\$0	1	\$25	1	\$5	\$54
C2.4	Engineering Support for Mitigation Design	24	\$2	24	\$14	8	\$2	8	\$6	0	\$0	0	\$0	1	\$25	1	\$5	\$54
	Subtotal Task C2	152	\$11	96	\$88	32	\$8	32	\$24	0	\$0	0	\$0	4	\$100	4	\$20	\$220
C3	Drainage Design																	
C3.1	Data Collection and Review	900	\$40	1200	\$720	40	\$10	20	\$15	0	\$0	0	\$0	2	\$80	1	\$5	\$840
C3.2	Drainage Calculations	800	\$40	1200	\$720	40	\$10	20	\$15	0	\$0	0	\$0	1	\$25	1	\$5	\$815
C3.3	Drainage Report	300	\$18	1200	\$720	20	\$5	20	\$15	0	\$0	0	\$0	2	\$80	1	\$5	\$811
C3.4	Drainage Design Plans	80	\$4	0	\$0	20	\$5	20	\$15	0	\$0	0	\$0	2	\$80	1	\$5	\$79
	Subtotal Task C3	1280	\$102	3600	\$2,160	120	\$30	60	\$45	0	\$0	0	\$0	7	\$175	4	\$20	\$2,845

**Key West International Airport  
EA & Permitting - RW 9/27 SAFETY AREAS  
Independent Cost Estimate**

Date: May 26, 2004

Task	Description	Fiscal Year 2004		Fiscal Year 2005		Fiscal Year 2006		Fiscal Year 2007		Contract		Laboratory		Overnight Estimated		Other		PRODUCTION TOTAL
		Units	Cost	Units	Cost	Units	Cost	Units	Cost	Units	Cost	Units	Cost	Units	Cost	Units	Cost	
C4	Permit Applications and Mitigation Plans																	
	Preparation of Joint Environmental Review / 404 Permit Application	800	\$64	200	\$120	40	\$10	80	\$80	0	\$0	0	\$0	4	\$100	10	\$80	\$404
C4.1	Develop Preliminary Mitigation Plan	200	\$16	0	\$0	40	\$10	80	\$80	0	\$0	0	\$0	1	\$25	1	\$5	\$146
C4.2	Mitigation Construction Plans	0	\$0	0	\$0	80	\$20	80	\$80	0	\$0	0	\$0	1	\$25	1	\$5	\$110
C4.3	Subtotal Task C4	1000	\$80	200	\$120	160	\$40	240	\$190	0	\$0	0	\$0	6	\$150	12	\$60	\$680
	Subtotal Part C	2352	\$288	404	\$2,428	207	\$84	377	\$284	10	\$5	10	\$10	22	\$880	25	\$125	\$3,747
	Part D: Meetings and Coordination																	
D1	Project Team Meetings, Presentations, and Coordination																	
	Project Team Meetings	1000	\$120	900	\$108	200	\$200	50	\$10	10	\$5	10	\$10	5	\$125	1	\$5	\$775
	Subtotal Task D1	1000	\$120	900	\$108	200	\$200	50	\$10	10	\$5	10	\$10	5	\$125	1	\$5	\$775
D2	Resource Agency Meetings, Presentations, and Coordination																	
	Resource Agency Meetings	800	\$40	80	\$20	80	\$12	80	\$28	5	\$2	5	\$5	5	\$125	1	\$5	\$254
	Subtotal Task D2	800	\$40	80	\$20	80	\$12	80	\$28	5	\$2	5	\$5	5	\$125	1	\$5	\$254
	Subtotal Part D	2000	\$160	980	\$208	280	\$212	130	\$48	15	\$8	15	\$15	10	\$250	2	\$10	\$1,029
	Part E: Project Management																	
E1	Project Management																	
	Project Management	1000	\$80	80	\$28	80	\$15	10	\$4	10	\$5	10	\$10	15	\$375	1	\$5	\$534
	Subtotal Task E1	1000	\$80	80	\$28	80	\$15	10	\$4	10	\$5	10	\$10	15	\$375	1	\$5	\$534
E2	Project Management Plan and Quality Assurance Plan																	
	Project Management/QA Plan	400	\$12	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0	1	\$25	1	\$5	\$62
	Subtotal Task E2	400	\$12	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0	1	\$25	1	\$5	\$62
E3	Progress Reporting																	
	Progress Reports	100	\$5	100	\$80	100	\$25	100	\$75	100	\$20	100	\$100	10	\$250	0	\$0	\$508
	Subtotal Task E3	100	\$5	100	\$80	100	\$25	100	\$75	100	\$20	100	\$100	10	\$250	0	\$0	\$508
	Subtotal Part E	1000	\$130	180	\$308	180	\$40	110	\$83	110	\$25	110	\$110	25	\$625	1	\$10	\$1,169
	Project Subtotal (Base EA Fee)	63627	\$4,282	3815	\$2,488	1217	\$478	4117	\$2,808	897	\$290	897	\$897	168	\$4,200	87	\$435	\$16,841
	Part F: Optional Tasks																	
F1	Formal Section 106 Coordination for Historical Resource Impact																	
	Conduct 106 Coordination Program MOA	200	\$40	200	\$200	0	\$0	0	\$0	0	\$0	0	\$0	2	\$20	5	\$25	\$415
	Subtotal Task F1	200	\$40	200	\$200	0	\$0	0	\$0	0	\$0	0	\$0	2	\$20	5	\$25	\$415
F2	Biological Assessment and Formal Section 7 Consultation																	
F2.1	Protected Species Surveys	1000	\$80	100	\$80	20	\$5	20	\$15	20	\$10	20	\$20	1	\$25	5	\$25	\$240
F2.2	Assessment of Potential Impacts to Protected Species	1000	\$80	100	\$80	20	\$5	20	\$15	20	\$10	20	\$20	1	\$25	5	\$25	\$240
F2.3	Development of Conservation Measures	1000	\$80	100	\$80	20	\$5	20	\$15	20	\$10	20	\$20	1	\$25	5	\$25	\$240
F2.4	Biological Assessment Development	1000	\$80	100	\$80	20	\$5	20	\$15	20	\$10	20	\$20	1	\$25	5	\$25	\$240
F2.5	Formal Section 7 Consultation	1000	\$80	100	\$80	20	\$5	20	\$15	20	\$10	20	\$20	1	\$25	5	\$25	\$240
	Subtotal Task F2	5000	\$400	500	\$400	100	\$25	100	\$75	100	\$20	100	\$100	5	\$125	25	\$125	\$1,200
	Optional Tasks Subtotal (Part F)	6500	\$440	1000	\$480	100	\$25	100	\$75	100	\$20	100	\$100	7	\$175	30	\$150	\$1,610
	Project Total	69927	\$4,722	4815	\$4,968	1317	\$503	4217	\$3,133	897	\$290	897	\$897	175	\$4,375	117	\$585	\$18,451

**Key West International Airport  
EA & Permitting - RW 9/27 SAFETY AREAS  
Independent Cost Estimate**

Date: May 25, 2014

Task	Description	DRAWINGS		PERMITTING BOARD		COUNTY DEPT/OTHER		INVESTIGATION		PORTALS		PUB 9/27 = 9/27		ADVERTISEMENTS		OTHER		OTHER TOTAL COST
		PLAN		SIS		\$1,000		\$100		\$1,000		\$1		\$100		\$1		
		Units	Cost	Units	Cost	Units	Cost	Units	Cost	Units	Cost	Units	Cost	Units	Cost	Units	Cost	
Part A: Project Definition and Identification of Alternatives																		
A1	Early Notification	0	\$0	0	\$0	0	\$0	0	\$0	0	\$22	0	\$0	0	\$0	0	\$0	\$22
A2	EA Introduction	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0	0	\$4,300	\$4,300
A3	Definition of Purpose & Need	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0	\$0
A4	Identification of Alternatives	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0	\$0
A5	Public/Agency Coordination Meeting	250	\$375	20	\$400	1	\$1,000	0	\$0	0	\$22	0	\$0	0	\$0	1	\$0	\$32
	Subtotal Part A	250	\$375	20	\$400	1	\$1,000	0	\$0	120	\$44	0	\$0	0	\$0	1	\$0	\$1,797
Part B: Preparation of Environmental Assessment																		
B1	Affected Environment																	
B1.1	Study Area Definition, Base Map	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0	12	\$48	0	\$0	0	\$0	\$48
B1.2	Description of the Affected Environment	0	\$0	0	\$0	0	\$0	1	\$400	0	\$0	10	\$40	0	\$0	0	\$0	\$440
	Subtotal Task B1	0	\$0	0	\$0	0	\$0	1	\$400	0	\$0	22	\$88	0	\$0	0	\$0	\$488
B2	Environmental Consequences																	
B2.1	Wetlands	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0	12	\$48	0	\$0	0	\$0	\$48
B2.2	Static Communities	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0	0	\$24	0	\$0	0	\$0	\$24
B2.3	Essential Fish Habitat Assessment	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0	2	\$8	0	\$0	0	\$0	\$8
B2.4	Endangered & Threatened Species	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0	5	\$20	0	\$0	0	\$0	\$20
B2.5	Water Quality	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0	10	\$40	0	\$0	0	\$0	\$40
B2.6	Floodplains	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0	2	\$8	0	\$0	0	\$0	\$8
B2.7	Hazardous Materials	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0	1	\$4	0	\$0	0	\$0	\$4
B2.8	Historical/Archaeological Resources	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0	10	\$40	0	\$0	0	\$0	\$40
B2.9	DOT Section 300(c) Resources	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0	1	\$4	0	\$0	0	\$0	\$4
B2.10	Noise	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0	\$0
B2.11	Compatible Land Use	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0	\$0
B2.12	Social Impacts	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0	\$0
B2.13	Induced Socioeconomic Impacts	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0	\$0
B2.14	Air Quality	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0	\$0
B2.15	Coastal Zone Management/Coastal Barriers	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0	\$0
B2.16	Wild & Scenic Rivers	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0	\$0
B2.17	Foreland	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0	\$0
B2.18	Energy Supply & Natural Resources	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0	\$0
B2.19	Light Emissions	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0	\$0
B2.20	Solid Waste Impacts	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0	\$0
B2.21	Construction Impacts	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0	5	\$20	0	\$0	0	\$0	\$20
B2.22	Cumulative Impacts/Other Considerations	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0	2	\$8	0	\$0	0	\$0	\$8
	Subtotal Task B2	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0	28	\$112	0	\$0	0	\$0	\$112

**Key West International Airport  
EA & Permitting - RW 9/27 SAFETY AREAS  
Independent Cost Estimate**

Date: 08/26/2004

Page 24 of 204																			
Task	Description	INDEPENDENT		PERMITTING SERVICES		COURT REPORTING		AGENCY DATA REVIEW		POSTAGE		Photo 8 1/2" x 11"		ADJUSTMENTS		OTHER		OTHER TOTAL COST	
		Hour Cost		Hour Cost		Hour Cost		Hour Cost		Hour Cost		Hour Cost		Hour Cost		Hour Cost			
		Rate	Cost	Rate	Cost	Rate	Cost	Rate	Cost	Rate	Cost	Rate	Cost	Rate	Cost	Rate	Cost		
B3	Draft EA Report Preparation																		
B3.1	Preliminary Draft EA	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0	\$0	
B3.2	Draft EA Preparation	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0	\$0	
	Subtotal Task B3	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0	\$0	
B4	Public Involvement																		
B4.1	Meeting List	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0	\$0	
B4.2	Public Information Meeting	200	\$375	20	\$400	2	\$2,000	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0	\$2,000	
B4.3	Public Hearing	300	\$450	20	\$400	2	\$2,000	0	\$0	0	\$0	0	\$0	0	\$0	1	\$0	\$2,000	
	Subtotal Task B4	500	\$825	40	\$800	4	\$4,000	0	\$0	0	\$0	0	\$0	0	\$0	1	\$0	\$4,000	
B5	Draft EA Comment Analysis																		
	Draft EA Comment Analysis	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0	\$0	
	Subtotal Task B5	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0	\$0	
B6	Final EA Report Preparation																		
B6.1	Preliminary Final EA Preparation	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0	\$0	
B6.2	Final EA Preparation	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0	\$0	
	Subtotal Task B6	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0	\$0	
B			\$825	40	\$800	4	\$4,000	1	\$0	0	\$0	70	\$310	0	\$0	1	\$0	\$4,805	
	Part C: Environmental Permitting																		
C1	Data Collection and Assessment																		
	Wetlands Field Investigation and Jurisdictional Determination	0	\$0	0	\$0	0	\$0	0	\$0	0	\$10	0	\$0	0	\$0	0	\$0	\$10	
C1.1	Wetland Jurisdictional Report	0	\$0	0	\$0	0	\$0	0	\$0	0	\$10	0	\$0	0	\$0	0	\$0	\$10	
C1.2	Wetland Jurisdictional Report	0	\$0	0	\$0	0	\$0	0	\$0	0	\$10	0	\$0	0	\$0	0	\$0	\$10	
C1.3	Stake Community Assessment	0	\$0	0	\$0	0	\$0	0	\$0	0	\$10	0	\$0	0	\$0	0	\$0	\$10	
C1.4	Essential Fish Habitat Assessment	0	\$0	0	\$0	0	\$0	0	\$0	0	\$10	0	\$0	0	\$0	0	\$0	\$10	
C1.5	Protected Species Assessment	0	\$0	0	\$0	0	\$0	0	\$0	0	\$10	0	\$0	0	\$0	0	\$0	\$10	
	Subtotal Task C1	0	\$0	0	\$0	0	\$0	0	\$0	0	\$30	0	\$0	0	\$0	0	\$0	\$30	
C2	RSA Design Services																		
C2.1	Engineering Support for Alternatives Analysis	0	\$0	3	\$60	0	\$0	0	\$0	0	\$10	0	\$0	0	\$0	0	\$0	\$60	
C2.2	Conceptual Design of RSA Alternatives	0	\$0	3	\$60	0	\$0	0	\$0	0	\$10	0	\$0	0	\$0	0	\$0	\$60	
C2.3	Preliminary Design of Preferred RSA Alternative	0	\$0	3	\$60	0	\$0	0	\$0	0	\$10	0	\$0	0	\$0	0	\$0	\$60	
C2.4	Engineering Support for Mitigation Design	0	\$0	3	\$60	0	\$0	0	\$0	0	\$10	0	\$0	0	\$0	0	\$0	\$60	
	Subtotal Task C2	0	\$0	12	\$240	0	\$0	0	\$0	0	\$30	0	\$0	0	\$0	0	\$0	\$240	
C3	Drainage Design																		
C3.1	Data Collection and Review	0	\$0	0	\$0	0	\$0	0	\$0	25	\$0	20	\$0	0	\$0	0	\$0	\$0	
C3.2	Drainage Calculations	0	\$0	0	\$0	0	\$0	0	\$0	25	\$0	0	\$0	0	\$0	0	\$0	\$0	
C3.3	Drainage Report	0	\$0	0	\$0	0	\$0	0	\$0	25	\$0	0	\$0	0	\$0	0	\$0	\$0	
C3.4	Drainage Design Plans	0	\$0	0	\$0	0	\$0	0	\$0	25	\$0	100	\$400	0	\$0	0	\$0	\$400	
	Subtotal Task C3	0	\$0	0	\$0	0	\$0	0	\$0	100	\$37	120	\$400	0	\$0	0	\$0	\$437	

**Key West International Airport  
EA & Permitting - RW 9/27 SAFETY AREAS  
Independent Cost Estimate**

Date: May 25, 2009

Task	Description	INTERVIEWS		PRESENTATION MEETINGS		COURT REPORTING		WARRANT DATA SEARCH		POSTAGE		FIELD RT'S & RT'S		ADVERTISEMENTS		OTHER		OTHER TOTAL
		Units	Cost	Units	Cost	Units	Cost	Units	Cost	Units	Cost	Units	Cost	Units	Cost	Units	Cost	
C4	Permit Applications and Mitigation Plans																	
	Preparation of Joint Environmental Resource /																	
C4.1	404 Permit Application	80	\$120	8	\$0	0	\$0	0	\$0	80	\$30	40	\$160	0	\$0	0	\$0	\$310
C4.2	Develop Preliminary Mitigation Plan	80	\$120	0	\$0	0	\$0	0	\$0	80	\$30	40	\$160	0	\$0	0	\$0	\$310
C4.3	Mitigation Construction Plans	80	\$120	0	\$0	0	\$0	0	\$0	80	\$30	120	\$480	0	\$0	0	\$0	\$630
	Subtotal Task C4	240	\$360	8	\$0	0	\$0	0	\$0	240	\$90	200	\$800	0	\$0	0	\$0	\$1,240
	Subtotal Part C	480	\$720	12	\$240	0	\$0	0	\$0	720	\$282	680	\$2,800	0	\$0	0	\$0	\$3,332
	Part D: Meetings and Coordination																	
D1	Project Team Meetings, Presentations, and Coordination																	
	Project Team Meetings	800	\$750	25	\$600	0	\$0	0	\$0	800	\$140	0	\$0	0	\$0	400	\$0	\$1,425
	Subtotal Task D1	800	\$750	25	\$600	0	\$0	0	\$0	800	\$140	0	\$0	0	\$0	400	\$0	\$1,425
D2	Resource Agency Meetings Presentations, and Coordination																	
	Resource Agency Meetings	200	\$375	0	\$0	0	\$0	0	\$0	250	\$83	0	\$0	0	\$0	0	\$0	\$458
	Subtotal Task D2	200	\$375	0	\$0	0	\$0	0	\$0	250	\$83	0	\$0	0	\$0	0	\$0	\$458
	Subtotal Part D	720	\$1,125	25	\$600	0	\$0	0	\$0	750	\$223	0	\$0	0	\$0	400	\$0	\$1,583
	Part E: Project Management																	
E1	Project Management																	
	Project Management	200	\$300	0	\$0	0	\$0	0	\$0	200	\$74	0	\$0	0	\$0	0	\$0	\$374
			\$0		\$0		\$0		\$0		\$0		\$0		\$0		\$0	\$0
	Subtotal Task E1	200	\$300	0	\$0	0	\$0	0	\$0	200	\$74	0	\$0	0	\$0	0	\$0	\$374
E2	Project Management Plan and Quality Assurance Plan																	
	Project Management/QA Plan	40	\$60	4	\$60	0	\$0	0	\$0	40	\$15	10	\$40	0	\$0	0	\$0	\$165
			\$0		\$0		\$0		\$0		\$0		\$0		\$0		\$0	\$0
	Subtotal Task E2	40	\$60	4	\$60	0	\$0	0	\$0	40	\$15	10	\$40	0	\$0	0	\$0	\$165
E3	Progress Reporting																	
	Progress Reports	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0	\$0
	Subtotal Task E3	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0	\$0
	Subtotal Part E	240	\$360	4	\$60	0	\$0	0	\$0	240	\$89	10	\$40	0	\$0	0	\$0	\$609
	Project Subtotal (Base EA Fee)	1720	\$3,495	101	\$2,820	0	\$0,000	1	\$600	1000	\$782	690	\$2,840	0	\$0	400	\$4,300	\$18,561
	Part F: Optional Tasks																	
F1	Formal Section 106 Coordination for Historical Resource Impact																	
	Conduct 106 Coordination Prepare MOA	100	\$150	0	\$100	0	\$0	0	\$0	80	\$30	80	\$320	0	\$0	0	\$0	\$600
	Subtotal Task F1	100	\$150	0	\$100	0	\$0	0	\$0	80	\$30	80	\$320	0	\$0	0	\$0	\$600
F2	Biological Assessment and Formal Section 7 Consultation																	
F2.1	Protected Species Surveys	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0	\$0
F2.2	Assessment of Potential Impacts to Protected Species	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0	\$0
F2.3	Development of Conservation Measures	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0	\$0
F2.4	Biological Assessment Development	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0	\$0
F2.5	Formal Section 7 Consultation	100	\$100	20	\$400	0	\$0	0	\$0	80	\$30	80	\$320	0	\$0	0	\$0	\$600
	Subtotal Task F2	100	\$100	20	\$400	0	\$0	0	\$0	80	\$30	80	\$320	0	\$0	0	\$0	\$600
	Optional Tasks Subtotal (Part F)	200	\$200	20	\$400	0	\$0	0	\$0	80	\$30	80	\$320	0	\$0	0	\$0	\$600
	Project Total	1920	\$3,795	121	\$2,820	0	\$0,000	1	\$600	2160	\$812	770	\$2,960	0	\$0	400	\$4,300	\$20,161

## **Moore-Bevette**

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**From:** Susan.Moore@faa.gov  
**Sent:** Monday, June 28, 2004 10:56 AM  
**To:** Horton-Peter@monroecounty-fl.gov  
**Cc:** Moore-Bevette@monroecounty-fl.gov; Mil\_Reisert@URSCorp.com  
**Subject:** EYW023: FAA OK for Contract for Environmental Assessment  
  
**Importance:** High

**Peter**

(This will supercede our previous EA approval letter of 12/23/03).

Our office has reviewed the scope & fees & independent estimate for the work.

Service order for \$930,816 is within 10% of independent estimate & is approved & eligible for fed participation

Let me know if you need formal letter; otherwise this serves as my/your file copy

**Susan**